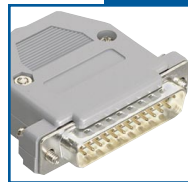


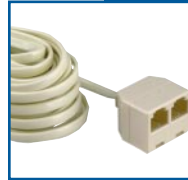
TABLE OF CONTENTS



**Your Source For
Electronic Accessories**



**COMPUTER/DATACOM/
FIBER OPTIC**



TELEPHONE



AUDIO



**VIDEO/
CONNECTORS**



**SURGE/
UPS SYSTEMS**



**CHEMICALS/
PRINTED CIRCUITS**



TOOLS



**SWITCHES/
PANEL LAMPS/LED'S**



WIRE

GC Electronics Full Line Catalog

Put it to work for you.

This catalog contains the full line of GC Electronics products — almost 10,000 electronic accessories and components.

Contents

This catalog has been divided into 2 major sections; Accessories and MRO Components. In Accessories, you'll find Computer/Datacom, Telephone, Audio, Video and Surge. In MRO Components, you'll find Chemicals, Tools, Switches and Wire. Products category names follow each page number found on the lower outside corners of each page.

Product Name and Catalog Indexes

Following the last product category in the catalog are two indexes to help you locate specific product or catalog numbers. The first index is alphabetized by product groups. The second index is in catalog number order. Each index references the appropriate catalog page number on which a product can be found.

In the upper left hand corner of each index page is a table entitled "LEGEND OF SECTIONS."

Abbreviations have been assigned to each Section to conserve space on the index pages.

The Legend defines these abbreviations.

LEGEND FOR SECTIONS

C/D - COMPUTER/DATACOM

TE - TELEPHONE

A - AUDIO

V - VIDEO

SU - SURGE

C - CHEMICALS

TO - TOOLS

SW - SWITCHES

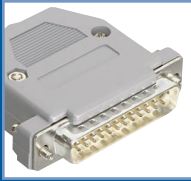
W - WIRE

Ordering from the GC Catalog

Many products are available both packaged and in bulk. A product number followed by -BU indicates that the product is available only in bulk. The GC price sheet gives an up-to-date listing of the packaging options available for our products. If you have requirements for forms of packaging that are not listed for specific products, please call Customer Service for a quote.

More Information

Every product listed in the GC Catalog is inventoried to provide uncompromising service to our customers. GC's global sourcing capabilities as a division of Katy Industries, can provide items not listed in this catalog. For product assistance call GC Customer Service 1-800-435-2931.



COMPUTER/ DATACOM

**Now
Includes
Fiber Optic**

For the last 70 years, GC Electronics has been recognized as a leading supplier of low voltage components, tools, and accessories. A strong part of this recognition comes as a result of GC's ability to provide both leading and trailing edge products; giving the industry a "one stop" source for some of the most difficult products to buy. GC is your conduit to nine major product families consisting of almost 10,000 GC part numbers. More importantly, GC gives you access to hundreds of thousands of part numbers from leading suppliers around the world.

Computer Accessories and Datacom products are the most visible examples of the GC story. We stock more than 1,200 product choices in these product categories alone. GC is able to meet your needs, whether you're a distributor with a retail show room, or a contractor who wants consistent quality, without the expense of fancy packaging materials. We are one of the few suppliers who have been able to support the industry through the growth of telephone accessories and make the transition into computer and datacom products. In addition to telephone, datacom, and surge products, GC can also support your needs for the installation of audio and video systems. GC Electronics' Plant Maintenance products, Switches, Wire, Chemicals, and Tools, round out the picture, giving the distributor and installer the products they need.

The GC Advantage:

- Broad selection of computer/datacom products to fulfil your needs
- GC products meet/or exceed the industry standards for material and quality
- OEM cables quoted to meet special requirements
- As a full spectrum supplier, GC offers more than 10,000 products; including Audio, Video, Telephone, Wire, Switches, Tools, and Surge Protection devices.
- GC offers limited Lifetime Warranty coverage against defects in materials and workmanship for all computer and datacom products.

Computer Accessories

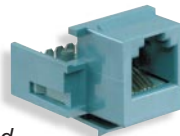
Cables and Accessories that connect the PC to a peripheral device (printer, scanner, mouse, etc.), or make the workstation more efficient.

All GC computer cables have molded-in strain relief and heavy-duty shielding. These cables are tested in-house to insure that they are properly wired for the intended application and meet industry specifications. As a result, all GC computer cables carry a limited Lifetime Warranty, covering materials and workmanship. In addition to the more than 800 products shown in this section, GC is able to provide custom cables, upon request. Please refer to the pages below to find the specific products that you need:

- Bulk Computer Cable
- Computer Cables
- Bi-Directional Printer Cables (IEEE 1284 compliant)
- FireWire Cables (IEEE 1394 compliant)
- Internal Cables and Adapters
- Keyboard Cables and Adapters
- Monitor Cables



- Parallel Printer Cables
- Power Cords and Accessories
- SCSI (I,II, and III) Cables, Adapters, and Terminators
- Specialty Computer Cables
- Standard Computer Cables
- USB Cables, Adapters, and Hubs
- Connectors
- Data Switches (Automatic and Manual)
- Gender Changers, Port Protectors, and Adapters
- Multi-Media Accessories
- Small Office and Home Office (SOHO) Accessories
- Tools and Testers
- Workstation Accessories and Input Devices
- Wall Plates



Datacom Accessories

Products that link computers into networks.

GC Electronics offers everything necessary to complete the wiring from the entrance

facility (or equipment closet) to the workstation. GC's products meet ANSI and EIA/TIA specs, making them interchangeable with all other industry compliant products. Our datacom line has grown with the industry, from the earliest use of telephone circuits to today's high-speed networks. Here's an overview of the network data processing speeds covered by GC products:

- Cat 1 Analog Voice Applications (POTS - Plain Old Telephone System)
- Cat 2 Digital Voice - 1 MHz
- Cat 3 16 MHz
- Cat 4 20 MHz
- Cat 5 100 MHz
- Cat 5e 350 MHz



Note: A network will operate at the speed of its lowest component. As a result, a Cat 5e component can be used in a Cat 5 system, without degrading the performance. However, the use of a Cat 5 component in a Cat 5e network will restrict the transmission speed of the system to 100 MHz.

GC Electronics offers over 400 Datacom products, including:

- Adapters
- Connectors
- Jacks
- Flush
- Modular
- Surface Mount
- Modular Patch Panels
- Modular Wall Plates and Inserts
- Network Patch Cables
- Surface Mounted Jacks
- Tools & Testers
- Wire



USB (UNIVERSAL SERIAL BUS) & "FIREWIRE"

USB to Parallel Port

- Economical cables for connecting peripheral devices
- Capable of 12 mbps communication speeds
- Supports up to 127 devices
- New industry standard "plug and play"

- USB cable consists of (1) pair 28 AWG twisted wire for signal + (1) 24 AWG wire for power for cables up to 3m, and (1) 20 AWG power pair for 4m and 5m lengths. All are double shielded with a mylar foil and braided shields.



CEN36 (M)

USB to Parallel Port

- 100% plug and play
- Fully compatible with Windows 95®/Rev. B & Windows 98®
- Connect to any parallel printer port using your USB port

USB (A) to CEN36 (M) 6'
Cat. No. 45-1436



USB (A)

USB (A) to CEN36 (M) 12'
Cat. No. 45-1440



USB Motherboard Adapter

- Adds USB capability to your PC
- (2) USB (A) to (2) IDC10 (F) with a Port Bracket

Cat. No. 45-1422



USB HUB

- Connects up to (4) USB devices to one USB port

Cat. No. 45-1450



USB (F)

USB Adapter Cables

- Connect to input devices such as keyboard & mouse
- Connect to video output port through HDB15

Game Port Adapters

USB (A) (F) to DB15 (F) 6'
Cat. No. 45-1415

USB (A) (F) to DB15 (F) 12'
Cat. No. 45-1417



DB15 (F)

Keyboard & Mouse Adapters

USB (A) (F) to MD6 (M) 6'
Cat. No. 45-1418

USB (A) (F) to MD6 (M) 12'
Cat. No. 45-1419



6c (M)

IEEE1394 "Firewire"

The multimedia connection (connect video cameras, VCR's digital cameras, and printers)

- Real-time data transfer for multimedia applications
- Capable of speeds of 100 mbps to 1000 Mbps (1 Gbps)
- Live connection/disconnection without data loss
- Automatic configuration supporting "plug & play"
- Allows mixing branches and daisy-chains w/ free form network topology

IEEE1394 "Firewire" Cable 4c (M) to 4c (M) 2M (6.5')

Cat. No. 45-1346

IEEE1394 "Firewire" Cable 6c (M) to 6c (M) 2M (6.5')

Cat. No. 45-1366

IEEE1394 "Firewire" Cable 4c (M) to 6c (M) 2M (6.5')

Cat. No. 45-1364



MD6 (M)

USB to USB Cables

USB (B) to USB (A) 1M (3.3')
Cat. No. 45-1413

USB (B) to USB (A) 2M (6.5')
Cat. No. 45-1416

USB (B) to USB (A) 3M (9.9')
Cat. No. 45-1403

USB (B) to USB (A) 4M (13.2')
Cat. No. 45-1406

USB (B) to USB (A) 5M (16.5')
Cat. No. 45-1410

MONITOR/VIDEO CABLES



HD15 (F)

Super VGA Cables

Premium Quality

- Made with (3) high quality 75Ω mini coax cables
- Double shielded with molded connectors and thumb screws
- Designed for use with high resolution monitors
- Premium quality have ferrite beads for added noise reduction and additional DDC (display data channel) support

Premium Quality

Super VGA Cable w/Ferrite Bead
HD15 (M) / HD15 (M) 6'
Cat. No. 45-1876

Super VGA Cable w/Ferrite Bead
HD15 (M) / HD15 (M) 10'
Cat. No. 45-1870

Super VGA Cable w/Ferrite Bead
HD15 (M) / HD15 (F) 6'
Cat. No. 45-1866

Super VGA Cable w/Ferrite Bead
HD15 (M) / HD15 (F) 10'
Cat. No. 45-1880

High Quality

Super VGA Cable HD15 (M)/
HD15 (M) 6'
Cat. No. 45-1836

Super VGA Cable HD15 (M)/
HD15 (M) 10'
Cat. No. 45-1839

Super VGA Cable HD15 (M)/
HD15 (M) 25'
Cat. No. 45-1841

Super VGA Cable HD15 (M)/
HD15 (M) 50'
Cat. No. 45-1850

Super VGA Cable HD15 (M)/
HD15 (F) 6'
Cat. No. 45-1846

Super VGA Cable HD15 (M)/
HD15 (F) 10'
Cat. No. 45-1838

Super VGA Cable HD15 (M)/
HD15 (F) 25'
Cat. No. 45-1845

Super VGA Cable HD15 (M)/
HD15 (F) 50'
Cat. No. 45-1860



HD15 (M)



HD15 (M)



HD15 (F)



HD15 (M)

VGA Monitor Cables

- These cables use 28 AWG 14 conductor wire
- Heavy duty mylar foil shield
- Molded connectors with thumb screws

VGA Cable HD15 (M) / HD15 (M) 6'
Cat. No. 45-476

VGA Cable HD15 (M) / HD15 (F) 6'
Cat. No. 45-435

VGA Cable HD15 (M) / HD15 (M) 10'
Cat. No. 64-4014

VGA Cable HD15 (M) / HD15 (F) 10'
Cat. No. 64-4016



HD15 (F)



HD9 (M)

EGA (Enhanced Graphics Adapter) & CGA (Color Graphics Adapter) Monitor Cables

- High quality 28 AWG cable with mylar foil shield
- Molded connectors with thumb screws

Monitor Cable DB9 (M)/DB9 (F) 6'
Cat. No. 45-308

Monitor Cable DB9 (M)/DB9 (F) 10'
Cat. No. 45-314

Monitor Cable DB9 (M)/DB9 (M) 6'
Cat. No. 45-315

Monitor Cable DB9 (M) / DB9 (M) 10'
Cat. No. 45-316



HD9 (F)

Specialty Monitor Cables

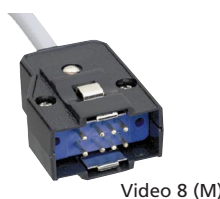
RGB Cables

RGB Cable DB9 (M) / Video8 (M) 4'
Cat. No. 45-416

RGB Cable (5) BNC (M) / (5) BNC (M) 6'
Cat. No. 45-1505

RGB Cable HD15 (M) / (5) BNC (M) 6'
Cat. No. 45-1840

RGB Cable DB9 (M) / (4) BNC 6' (M)
Cat. No. 45-1509



Video 8 (M)



BNC

IEEE 1284 BI-DIRECTIONAL COMPUTER CABLES

- High-speed
- 18 twisted pair cable with a minimum of 35 twists / meter
- Double shielded, heavy duty mylar foil and braided shield
- Uses 28 AWG cable



DB25 (M)

High-Speed Bi-Directional Printing

- Low noise bi-directional printer cables
- May be used on most printers
- Fully compliant with H.P.® IEEE 1284 standards

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 3')
Cat. No. 45-1803

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 6')
Cat. No. 45-1806

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 10')
Cat. No. 45-1810

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 25')
Cat. No. 45-1828

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 50')
Cat. No. 45-1829

Parallel Printer Cable IEEE1284 A/C (DB25 (M)/H.P. CEN36 (M) 6')
Cat. No. 45-1826

Parallel Printer Cable IEEE1284 A/C (DB25 (M)/H.P. CEN36 (M) 10')
Cat. No. 454-1830



CEN36 (M)



H.P. CEN36 (M)



DB25 (M)



DB25 (F)

High-Speed Parallel Computer Cables

- Uses 18 twisted pair, double shielded cable
- Used between computer and bi-directional devices or data switches

Parallel Cable IEEE1284 A/A (DB25 (M)/DB25 (M) 3')
Cat. No. 45-2503

Parallel Cable IEEE1284 A/A (DB25 (M)/DB25 (M) 6')
Cat. No. 45-2506

Parallel Cable IEEE1284 A/A (DB25 (M)/DB25 (M) 10')
Cat. No. 45-2507

Parallel Cable IEEE1284 A/A (DB25 (M)/DB25 (M) 25')
Cat. No. 45-2525

Parallel Cable IEEE1284 A/A (DB25 (M)/DB25 (F) 6')
Cat. No. 45-2606

Parallel Cable IEEE1284 A/A (DB25 (M)/DB25 (F) 10')
Cat. No. 45-2610



Bi-Directional Data Switches

- Complies with IEEE 1284 Standards
- All pins wired straight-thru
- Used to share one computer with multiple printers

Manual DB25 A/B
Cat. No. 45-2220

Manual DB25 A/B/C/D
Cat. No. 45-2221

Automatic DB25 A/B
Cat. No. 45-2225

Automatic DB25 A/B/C/D
Cat. No. 45-2226

PARALLEL PRINTER CABLES

- All printer cables have a minimum of 25 conductors
- Heavy duty mylar foil shielding
- Molded connectors with built in strain relief
- Cables use 28 AWG stranded cable
- Maximum run length is 50'



DB25 (M)

High-Speed Bi-Directional Printing

- Low noise bi-directional printer cables
- May be used on most printers
- Fully compliant with H.P.® IEEE 1284 standards

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 3')

Cat. No. 45-1803

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 6')

Cat. No. 45-1806

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 10')

Cat. No. 45-1810

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 25')

Cat. No. 45-1828

Parallel Printer Cable IEEE1284 A/B (DB25 (M)/CEN36 (M) 50')

Cat. No. 45-1829

Parallel Printer Cable IEEE1284 A/C (DB25 (M)/H.P. CEN36 (M) 6')

Cat. No. 45-1826

Parallel Printer Cable IEEE1284 A/C (DB25 (M)/H.P. CEN36 (M) 10')

Cat. No. 45-1830



CEN36 (M)



H.P. CEN36 (M)

Parallel Extension Cables

- All 36 pin wired straight through
- Heavy duty mylar foil shield
- Molded connectors

Parallel Extension Cable CEN36 (M) CEN36 (M) 6'

Cat. No. 45-700

Parallel Extension Cable CEN36 (M) CEN36 (M) 10'

Cat. No. 45-705

Parallel Extension Cable CEN36 (M) CEN36 (F) 6'

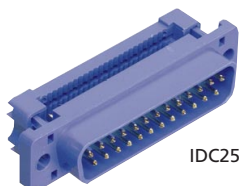
Cat. No. 45-710

Parallel Extension Cable CEN36 (M) CEN36 (F) 10'

Cat. No. 45-715



CEN36 (F)



IDC25 (M)

Lap-Top Parallel Printer Cable

- 28 AWG flat ribbon cable
- Lightweight for use with PC portables

DB25 (M)/CEN36 (M)

Cat. No. 45-250



IDC CEN36 (M)



DB25 (M)

Standard Parallel Printer Cables

- All cables fully wired with 25 conductors
- Premium quality cables have double shielding & lifetime warranty
- All high quality computer cables have a 5 year warranty

Premium Quality

Parallel Printer Cables DB25 (M)/CEN36 (M) 7'

Cat. No. 45-4424

High Quality

Parallel Printer Cables DB25 (M)/CEN36 (M) 2'

Cat. No. 45-202

Parallel Printer Cables DB25 (M)/CEN36 (M) 6'

Cat. No. 45-201

Parallel Printer Cables DB25 (M)/CEN36 (M) 10'

Cat. No. 45-204

Parallel Printer Cables DB25 (M)/CEN36 (M) 25'

Cat. No. 45-206

90° Parallel Printer Cables DB25 (M)/CEN36 (M) 6'

Cat. No. 45-210

90° Parallel Printer Cables DB25 (M)/CEN36 (M) 10'

Cat. No. 45-213

U/L Listed Parallel Printer Cables DB25 (M)/CEN36 (M) 6'

Cat. No. 45-231

U/L Listed Parallel Printer Cables DB25 (M)/CEN36 (M) 10'

Cat. No. 45-234

Parallel Printer Cables DB25 (M)/CEN36 (M) 15'

Cat. No. 45-381



CEN36 (M)



90° CEN36 (M)

Print Adapters

DB25 (F)/CEN36 (F)

Cat. No. 45-595

DB25 (M)/CEN36 (F)

Cat. No. 45-597

DB25 (F)/CEN36 (M)

Cat. No. 45-598



45-597



45-598

MONITOR/VIDEO CABLE & ADAPTERS



CEN24 (M)



CEN24 (F)

Specialty Cables

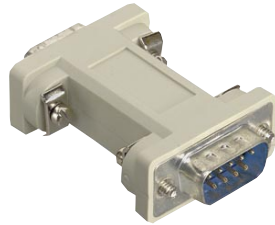
- GPIB (General Purpose Interface Bus)
- For attaching sensors and programmable lab instruments

IEEE488 GPIB Cable
CEN24 (M) / CEN24 (F) 6.5'
Cat. No. 45-450



Monitor "Y" Adapter

Connect (2) monitors to (1) PC
HD15 (M)/(2) HD15 (F)
Cat. No. 45-569



Monitor Adapters

- Connect a VGA Monitor to your PC

Monitor Adapter DB9 (F)/HD15 (F)
Cat. No. 45-590

Monitor Adapter DB9 (F)/HD15 (M)
Cat. No. 45-591

Monitor Adapter DB9 (M)/HD15 (F)
Cat. No. 45-592

Monitor Adapter DB9 (M)/HD15 (M)
Cat. No. 45-593



AC Molded (F)



AC Shrouded (M)

Monitor Power & Adapter Cables

Monitor Adapter
Shrouded (M) / AC (F) 1'
Cat. No. 45-401

Monitor Adapter
Shrouded (M) / Molded (F) 6'
Cat. No. 45-408

Monitor Adapter
Shrouded (M) / Molded (F) 12'
Cat. No. 45-409



AC Molded (F)



DB9 (M)

Monitor Adapter Cables

- Adapts monitor to PC
- Molded connectors

Monitor Adapter Cable DB9 (M)/HD15 (M) 6'
Cat. No. 45-437

Monitor Adapter Cable DB9 (F)/HD15 (F) 6'
Cat. No. 45-438



HD15 (M)



HD15 (F)



DB9 (F)



45-2050

Data Transfer Switches

Monitor Switch Boxes

Monitor Switch HD15 A/B
Cat. No. 45-2050

Monitor Switch HD15 A/B/C/D
Cat. No. 45-2415

Monitor Switch HD15 X
Cat. No. 45-2054



45-2255

Keyboard & Monitor Switch Boxes

Monitor & Keyboard Switch
HD15 + D5 A/B
Cat. No. 45-2255

Monitor & Keyboard Switch
HD15 + MD6 A/B/C/D
Cat. No. 45-2259

KEYBOARD CABLES & ADAPTERS



D5 (M)



D5 (F)

Keyboard Extension & Replacement Cables

5 PIN DIN plug for use on PC/XT/AT type keyboards

Keyboard Cable D5 (M)/D5 (F) 6' Straight

Cat. No. 45-405

Keyboard Cable D5 (M)/D5 (F) 10' Straight

Cat. No. 45-4410

Keyboard Cable D5 (M)/D5 (M) 6' Coiled

Cat. No. 64-4406

Keyboard Cable D5 (M) /D5 (M) 6' Straight

Cat. No. 64-4407

Keyboard Cable D5 (M) /D5 (M) 10' Straight

***Cat. No. 45-4510**



MD6 (M)



MD6 (F)

IBM PS2® Style Keyboard Cables

6 PIN Mini DIN for use with notebooks & PS2 keyboards

Keyboard Cable MD6 (M)/MD6 (F) 6' **Cat. No. 45-431**

Keyboard Cable MD6 (M)/MD6 (F) 12' **Cat. No. 45-432**

Keyboard Cable MD6 (M)/MD6 (F) 6' Coiled

Cat. No. 45-4605

Keyboard Cable MD6 (M)/MD6 (M) 6' Straight

Cat. No. 45-4606

Keyboard Cable MD6 (M)/MD6 (M) 10' **Cat. No. 45-4610**

Keyboard Cable MD6 (M)/MD6 (F) 25' **Cat. No. 45-4625**



Keyboard Adapters

Keyboards Adapter D5 (F)/MD6 (M) 6"

Cat. No. 45-570

Keyboards Adapter D5 (F)/MD6 (M)

Cat. No. 45-573

Keyboards Adapter D5 (M)/MD6 (F) 6"

Cat. No. 45-571

Keyboards



Windows '95 compatible
104 programmable keys

PC / XT AT Style with Cord & D5 (M) Plug
Cat. No. 64-145



IBM PS2® Compatible with Cord & MD6 (M) Plug
Cat. No. 64-142



Data Transfer Switches

Data Switch D5 A/B

Cat. No. 45-2205



Data Switch MD6 A/B

Cat. No. 45-2206

STANDARD COMPUTER CABLES

Our RS232 cables allow equipment to be moved wherever you wish it to be placed and with very little effort. They will make your work center environment more efficient.

- All computer cables are made to comply with industry standards.
- Cables are made with U/L listed cable which is tested at 80°C @ 300 V
- The connectors have molded cover, and thumbscrews.
- Premium quality cables carry a limited lifetime warranty.
- Premium quality cables are made with 24 AWG stranded cable.
- High quality cables are made with 28 AWG cable and heavy duty mylar foil shield.



DB25 (M)



DB25 (F)

RS232 Cables

DB25 Cables

Premium Quality

RS232 Cable DB25 (M)/DB25 (M) 5'

Cat. No. 45-4363

RS232 Cable DB25 (M)/DB25 (M) 10'

Cat. No. 45-4364

High Quality

RS232 Cable DB25 (M)/DB25 (M) 2'

Cat. No. 45-1502

RS232 Cable DB25 (M)/DB25 (M) 6'

Cat. No. 45-376

RS232 Cable DB25 (M)/DB25 (M) 10'

Cat. No. 45-377

RS232 Cable DB25 (M)/DB25 (M) 15'

Cat. No. 45-1565

RS232 Cable DB25 (M)/DB25 (M) 25'

Cat. No. 45-378

RS232 Cable DB25 (M)/DB25 (M) 50'

Cat. No. 45-357

RS232 Cable DB25 (M)/DB25 (M) 100'

Cat. No. 45-369

RS232 Cable DB25 (M)/DB25 (F) 2'

Cat. No. 45-358

RS232 Cable DB25 (M)/DB25 (F) 6'

Cat. No. 45-379

RS232 Cable DB25 (M)/DB25 (F) 10'

Cat. No. 45-374

RS232 Cable DB25 (M)/DB25 (F) 15'

Cat. No. 45-1555

RS232 Cable DB25 (M)/DB25 (F) 25'

Cat. No. 45-375

RS232 Cable DB25 (M)/DB25 (F) 50'

Cat. No. 45-355

RS232 Cable DB25 (M)/DB25 (F) 100'

Cat. No. 45-356

RS232 Cable DB25 (F)/DB25 (F) 6'

Cat. No. 45-371

RS232 Cable DB25 (F)/DB25 (F) 10'

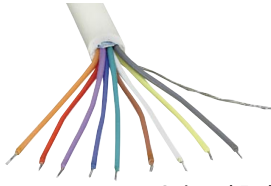
Cat. No. 45-373

RS232 Cable DB25 (F)/DB25 (F) 15'

Cat. No. 454-372



DB9 (M)



Stripped Ends



DB9 (F)



DB15 (M)



DB15 (F)



DB37 (M)



DB37 (F)

RS232 Cables

DB9 Cables

High Quality

RS232 Cable DB9 (M)/Stripped End 7'

Cat. No. 45-302

RS232 Cable DB9 (F)/Stripped End 7'

Cat. No. 45-303

RS232 Cable DB9 (M)/DB9 (M) 6'

Cat. No. 45-315

RS232 Cable DB9 (M)/DB9 (M) 10'

Cat. No. 45-316

RS232 Cable DB9 (M)/DB9 (M) 25'

Cat. No. 45-317

RS232 Cable DB9 (M)/DB9 (F) 6'

Cat. No. 45-308

RS232 Cable DB9 (M)/DB9 (F) 10'

Cat. No. 45-314

RS232 Cable DB9 (M)/DB9 (F) 25'

Cat. No. 45-306

Other "D-Sub" Cables

DB15 Cables

High Quality

Cable DB15 (M)/DB15 (M) 6'

Cat. No. 45-1566

Cable DB15 (M)/DB15 (M) 10'

Cat. No. 45-1558

Cable DB15 (M)/DB15 (F) 6'

Cat. No. 45-1556

Cable DB15 (M)/DB15 (F) 8'

Cat. No. 45-330

DB37 Cables RS449

High Quality

RS431 Cable DB37 (M) / DB37 (F) 3'

Cat. No. 45-463

RS431 Cable DB37 (M) / DB37 (F) 6'

Cat. No. 45-466

INTERNAL CABLES & ADAPTERS

Internal cables are used to connect the motherboard (the main computer PC board) to the drive units mounted within the computer case. There are two main types of cables used within the computer, and GC Electronics offers a variety of both. They are divided into power splitters and adapters, and data cables.



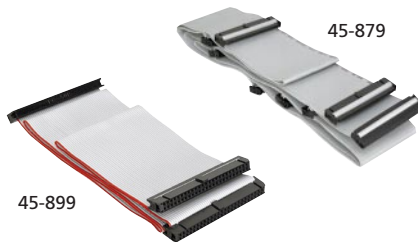
45-235

Motherboard Cable Sets

A (3) Piece Cable Set
DB25 (M)/IDC10 (F) 30cm
DB9 (M) IDC10 (F) 30cm
DB25 (F) IDC26 (F) 30cm
Cat. No. 45-233

A (5) Piece Cable Set
DB25 (M)/IDC10 (F) 30cm 12"
DB9 (M) IDC10 (F) 30cm 12"
DB25 (F) IDC26 (F) 30cm 12"
IDC34 (F)/(2) IDC34 (F) 24"
IDC40 (F)/(2) IDC40 (F) 18"
Cat. No. 45-235

A (2) Piece Cable Set
IDC34 (F)/(2) IDC34 (F) 18"
IDC40 (F)/(2) IDC40 (F) 18"
Cat. No. 45-238



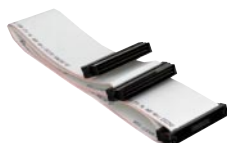
45-879

45-899

Internal SCSI (Small Computer System Interface) Cables

SCSI Cable for (2) Devices
IDC50 (F)/(2) IDC50 (F) 2'
Cat. No. 45-899

SCSI Cable for (6) Devices
IDC50 (F)/(7) IDC50 (F) 6'
Cat. No. 45-879



SCSI 3 Cable for (1) drive
Cat. No. 45-6801

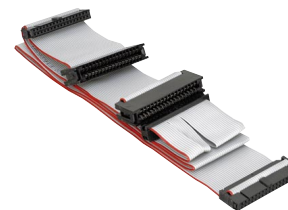
SCSI 3 Cable for (2) drives
Cat. No. 45-6803

SCSI 3 Cable for (4) drives
Cat. No. 45-6805



SCSI 3 Cable for (7) drives
Cat. No. 45-6808

SCSI 3 Cable for enclosures
Cat. No. 45-6809



Internal Drive Cables

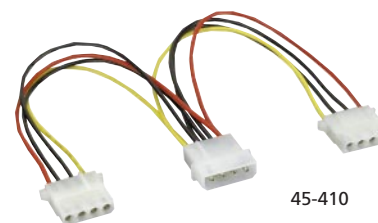
Floppy Drive Cable
(2) Card Edged34 (F)/(3) IDC34 (F) 32"
Cat. No. 45-895



45-893

Hard Disk Drive Cable
IDC40 (F)/(1) IDC40 (F) 18"
Cat. No. 45-893

Hard Disk Drive Cable
IDC40 (F)/(2) IDC40 (F) 24"
Cat. No. 45-894

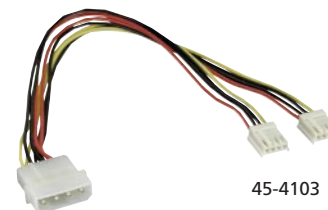


45-410

Power Splitters

(1) 5.25" (M)/(2) 5.25" (F) 6"
Cat. No. 45-410

(1) 5.25" (M)/(2) 5.25" (F) 12"
Cat. No. 45-4104

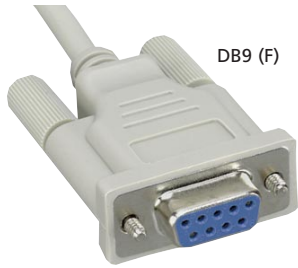


45-4103

(1) 5.25" (M)/(1) 5.25" (F) + (1) 3.5" (F) 6"
Cat. No. 45-4102

(1) 5.25" (M)/(2) 3.5" (F) 12"
Cat. No. 45-4103

SPECIALTY COMPUTER CABLES



DB9 (F)



DB9 (M)

IBM-AT, PS/2 & Compatible Adapter Cables

Modem Adapter DB9 (F)/DB25 (M) 6'

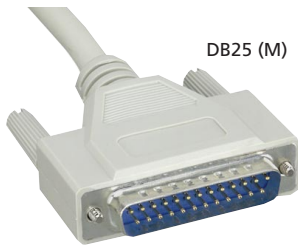
Cat. No. 45-320

Modem Adapter DB9 (F)/DB25 (M) 10'

Cat. No. 45-321

IBM-AT Serial Printer Adapter DB9 (F)/DB25 (M) 6'

Cat. No. 45-391



DB25 (M)

Premium Quality

IBM-AT Modem Adapter DB9 (F)/DB25 (M) 6'

Cat. No. 45-4427



DB25 (F)

Null Modem Cable DB25 (M)/DB25 (F) 10'

Cat. No. 45-395

Null Modem Cable DB25 (M)/DB25 (M) 10'

Cat. No. 45-394

Null Modem Cables

The cables allow you to connect two DCE or DTE devices in order to communicate between them. There are several types of Null Modem adapters. GC has included the most popular ones for your convenience.

Null Modem Cable DB9 (F)/DB9 (F) 6'

Cat. No. 45-389

Null Modem Cable DB9 (M)/DB9 (M) 10'

Cat. No. 45-390

Null Modem Cable DB25 (M)/DB25 (F) 6'

Cat. No. 45-393



Null Modem Adapters

Standard Type DB25 (M)/(F)

Cat. No. 45-582

Standard Type #1 DB25 (M)/(F)

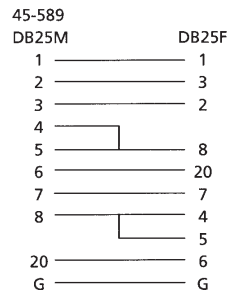
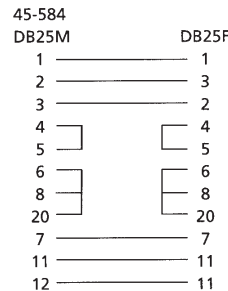
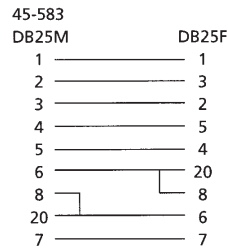
Cat. No. 45-589

Full Handshake DB25 (M)/(F)

Cat. No. 45-583

No-Handshake DB25 (M)/(F)

Cat. No. 45-584



Lap-Link Cable

The Lap-Link cable provides a universal link between IBM® compatible laptops and desk top computers. This six headed cable offers a choice of connecting computers through their parallel or serial ports. The parallel connectors are male, and the serial connectors are female.

Cat. No. 45-730

SCSI (SMALL COMPUTER SYSTEM INTERFACE) CABLES

More powerful computers and faster speeds have given rise to the tremendous growth in the SCSI peripheral devices. The first SCSI standard was adopted in 1986. It supports seven devices on an 8-bit bus at speeds up to 5 Mbps. The most common connectors to be used were DB25, CEN50, and DB50.

- SCSI cables use twisted pair wires
- Cables are double shielded
- Cable is 28 AWG with mylar foil and 85% Braid (SCSI 1 cables have foil shield only)



CEN50 (M)

SCSI 1

- SCSI 1 cable use a CEN50 connector
- Heavy duty mylar foil shield
- Molded connectors
- Supports speed up to 5 Mbps
- Can daisy-chain up to (7) devices

SCSI 1 Cable CEN50 (M)/
CEN50 (M) (25 wire) 3'
Cat. No. 45-853

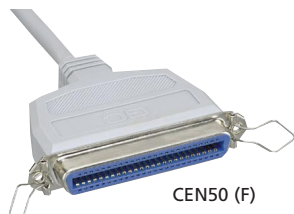
SCSI 1 Cable CEN50 (M)/
CEN50 (M) (25 wire) 6'
Cat. No. 45-856

SCSI 1 Cable CEN50 (M)/
CEN50 (M) (50 wire) 3'
Cat. No. 45-854

SCSI 1 Cable CEN50 (M)/
CEN50 (M) (50 wire) 6'
Cat. No. 45-855

SCSI 1 Cable CEN50 (M)/
CEN50 (F) 3'
Cat. No. 45-873

SCSI 1 Cable CEN50 (M)/
CEN50 (F) 6'
Cat. No. 45-876



CEN50 (F)

SCSI 2

- SCSI 2 cables use a H.P. DB50 connector
- Band width of 16 or 32 bits
- Maximum transfer rate of up to 40 Mbps
- Cables are double shielded with mylar foil and 85% braided shield
- Connectors have spring clip catches for easy installation

SCSI 2 Cable, H.P. DB50 (M)/
H.P. DB50 (M) 1.5'
Cat. No. 45-1813

SCSI 2 Cable, H.P. DB50 (M)/
H.P. DB50 (M) 3'
Cat. No. 45-813

SCSI 2 Cable, H.P. DB50 (M)/
H.P. DB50 (M) 6'
Cat. No. 45-890

SCSI 2 Cable, H.P. DB50 (M)/
H.P. DB50 (M) 10'
Cat. No. 45-8310

SCSI 2 to SCSI 1 Adapter

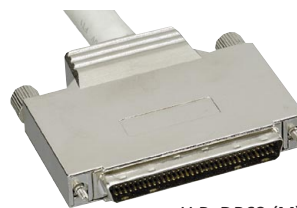
SCSI 2 to SCSI 1 Cable,
H.P. DB50 (M)/CEN50 (M) 3'
Cat. No. 45-905

SCSI 2 to SCSI 1 Cable,
H.P. DB50 (M)/CEN50 (M) 6'
Cat. No. 45-896

SCSI 2 to SCSI 1 Cable,
H.P. DB50 (M)/CEN50 (M) 10'
Cat. No. 45-8210



H.P. DB50 (M)



H.P. DB68 (M)

SCSI 3

- SCSI 3 cables have a H.P. DB68 connector
- Cables are double shielded with mylar foil and 85% braided shield
- Connectors have spring clip catches for easy installation
- Band width of 16 or 32 bits
- Maximum transfer rate of up to 40 mbps

SCSI 3 Cable, H.P. DB68 (M)/
H.P. DB68 (M) 3'
Cat. No. 45-803

SCSI 3 Cable, H.P. DB68 (M)/
H.P. DB68 (M) 6'
Cat. No. 45-806

SCSI 3 to SCSI 2 & SCSI 1 Adapter Cables

SCSI 3 to SCSI 1 Cable,
H.P. DB68 (M)/CEN50 (M) 3'
Cat. No. 45-875

SCSI 3 to SCSI 1 Cable,
H.P. DB68 (M)/CEN50 (M) 6'
Cat. No. 45-877

SCSI 3 to SCSI 2 Cable,
H.P. DB68 (M)/DB50 (M) 3'
Cat. No. 45-906

SCSI 3 to SCSI 2 Cable,
H.P. DB68 (M)/H.P. DB68 (M) 6'
Cat. No. 45-907

IBM® RS6000

- Adapts IBM® RS6000 SCSI port to an external SCSI device
- RS6000 cables have a H.P. CEN60 connector

RS6000 to SCSI 1 Cable,
H.P. CEN60 (M)/CEN50 (M) 3'
Cat. No. 45-833

RS6000 to SCSI 1 Cable,
H.P. CEN60 (M)/CEN50 (M) 5'
Cat. No. 45-884

RS6000 to SCSI 1 Cable,
H.P. CEN60 (M)/CEN50 (M) 6'
Cat. No. 45-846



H.P. CEN60 (M)

SCSI CABLES, ADAPTERS & TERMINATORS

Internal SCSI (Small Computer System Interface) Cables



45-899

SCSI Cable for (2) Devices
IDC50 (F)/(2) IDC50 (F) 2'
Cat. No. 45-899



45-879

SCSI Cable for (6) Devices
IDC50 (F)/(7) IDC50 (F) 6'
Cat. No. 45-879



45-6803

SCSI 3 Cable for (1) Drive
Cat. No. 45-6801

SCSI 3 Cable for (2) Drives
Cat. No. 45-6803

SCSI 3 Cable for (4) Drives
Cat. No. 45-6805

SCSI 3 Cable for (7) Drives
Cat. No. 45-6808

SCSI 3 Cable for Enclosures
Cat. No. 45-6809

SCSI Terminators

SCSI terminators and active terminators. A passive terminator minimizes reflections (standing waves or interference) at the end of the SCSI Cable, and provides impedance close to the impedance of the cable. It is "passive" because it does not regulate power for termination. Active terminators control the impedance at the end of the cable by using a voltage regulator.



45-826

SCSI 1 Active Terminator, CEN50 (M)/Single Ended
Cat. No. 45-826



45-871

SCSI 1 Passive Terminator, CEN50 (M)/CEN50 (F)
Cat. No. 45-870



45-827

SCSI 1 Passive Terminator, CEN50 (M)/CEN50 (F)
Cat. No. 45-871



45-878

SCSI 2 Active Terminator, H.P. DB50 (M)
Cat. No. 45-827



45-882

SCSI 2 Passive Terminator, H.P. DB50 (M)
Cat. No. 45-828



45-1811

SCSI 3 Active Terminator, H.P. DB68 (M)
Cat. No. 45-878

SCSI 1 Passive Terminator, DB50 (M)
Cat. No. 45-882

SCSI 1 Active Terminator, DB50 (M)
Cat. No. 45-883

Internal Active Terminator, IDC50 (M)/IDC50 (F)
Cat. No. 45-1811

Internal Active Terminator, IDC50 (M)/Single ended
Cat. No. 45-1812

SCSI Adapters

These adapters make it easy to connect two different types of SCSI devices without purchasing expensive cabling.



45-892

SCSI 1 to SCSI 2 Adapter, CEN50 (F)/H.P. DB50 (M)
Cat. No. 45-892



45-807

SCSI 1 to SCSI 3 Adapter, CEN50 (F)/H.P. DB68 (M)
Cat. No. 45-807



45-864

SCSI 2 to SCSI 1 Adapter, H.P. DB50 (M)/DB25 (F)
Cat. No. 45-864



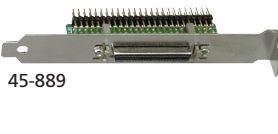
45-865

SCSI 2 to SunMicro Adapter, H.P. DB50 (M)/DB50 (F)
Cat. No. 45-865



45-868

SCSI 1 "T" Adapter, CEN50 (M)/(2) CEN50 (F)
Cat. No. 45-868



45-889

SCSI 2 Port Adapter, H.P. DB50 (F)/IDC50 (M) + Bracket
Cat. No. 45-889



45-6831

SCSI 3 Port Adapter, H.P. DB68 (F)/IDC CEN50 (F)
Cat. No. 45-6831



45-6832

SCSI 3 Port Adapter, H.P. DB68 (M)/IDC CEN50 (M)
Cat. No. 45-6832

PC POWER CORDS & ACCESSORIES



45-400
AC Grounded (M)



45-403
AC Grounded (F)



45-401
AC Molded (F)



45-408
AC Shrouded (M)



AC Grounded (M)



AC Grounded (F)

Power Cords

These cords are used as replacements for computer, printers, and other SOHO (small office / home office) devices with a current draw of less than 7A @ 125 VAC. Cords are made with 18 AWG stranded UIL listed cable, and molded ends.

Computer Power Cord, AC (M)/Molded (F) 6'

Cat. No. 45-400

Computer Power Cord, AC (M)/Molded (F) 10'

Cat. No. 45-406

Computer Power Extension, Shrouded (M)/Molded (F) 1'

Cat. No. 45-403

Computer Power Extension, Shrouded (M)/Molded (F) 6'

Cat. No. 45-404

Computer Power Extension, Shrouded (M)/Molded (F) 12'

Cat. No. 45-412

Monitor Power & Adapter Cables

Power Adapter Shrouded (M)/AC (F) 1'

Cat. No. 45-401

Power Adapter Shrouded (M)/Molded (F) 6'

Cat. No. 45-408

Monitor Adapter Shrouded (M)/Molded (F) 12'

Cat. No. 45-409

Extension Cord

AC 3 Conductor (M)/AC 3 Conductor (F) 6'

Cat. No. 45-402



Equipment Cooling Fans 12V DC

- Standard 4-1/8" Centers
- Voltage 115VAC, 60 Hz
- Airflow 105 CFM, Speed 3100 RPM

Cat. No. 2597



45-4486

CPU Cooling Fans 12V DC

486 Cooling Fan w/Heatsink
Cat. No. 45-4486



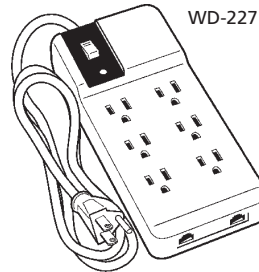
45-4586

586 & Pentium Fan w/Heatsink
Cat. No. 45-4586



45-4686

Pentium Pro Fan w/Heatsink
Cat. No. 45-4686



WD-2271

Surge Protector & Power Center

These power devices were especially selected for rugged reliability and features for the SOHO environment.

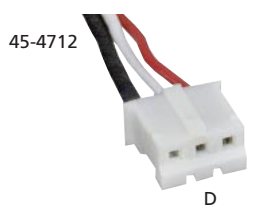
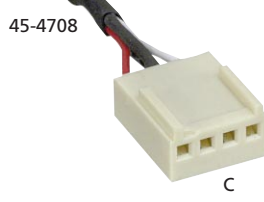
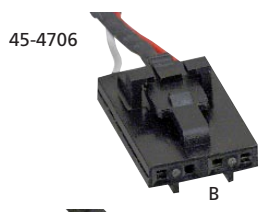
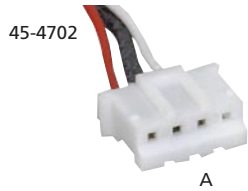
3 Conductor, (6) Outlet, Computer + Modem Protector Strip with Phone/Fax/Modem Line Protection, 330V/510J, Lifetime 100% Equipment Replacement Guarantee, Off-White
Cat. No. WD-2271



64-6651

Power Center w / (5) Outlets & Switches + Master On/Off
Cat. No. 64-6651

MULTIMEDIA ACCESSORIES



CD-ROM Cables
 The CD-ROM cables are to ease the hook-up of your CD drive to the Sound card. GC offers many kinds of CD-ROM audio cables to fit the most popular drives on the market.

CD-ROM Cable, Sound Blaster/Panasonic A-D
Cat. No. 45-4702

CD-ROM Cable, Sound Blaster/Toshiba A-B
Cat. No. 45-4704

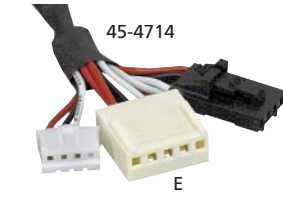
CD-ROM Cable, Sound Blaster/NEC
Cat. No. 45-4706

CD-ROM Cable, Sound Blaster/Sony
Cat. No. 45-4708

CD-ROM Cable, Sound Blaster/Mitsumi A-A
Cat. No. 45-4710

CD-ROM Cable, Sound Blaster/Mitsubishi D-D
Cat. No. 45-4712

CD-ROM Cable, Universal
Cat. No. 45-4714



Midi Keyboard Cable
 These cables are designed to help you interface musical input devices such as electronic keyboards to your PC. This cable has a Game port in and out as well as keyboard in and out.

Midi cable, DB15 (M)/DB15 (F) + (2) D5 (M) 6'
Cat. No. 45-1516

Midi cable, D5 (M)/D5 (M) 6'
Cat. No. 45-1515



Multimedia Speakers, Microphone & Headphones

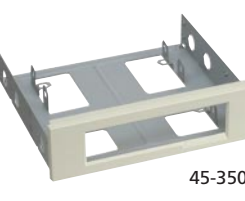
Traveling the net is more fun and easy with the multimedia items offered in this catalog. GC offers microphones, headphones and high quality amplified & magnetically shielded speakers for your surfing pleasures.

Multimedia Dynamic Microphone with Stand & Mini Stereo Plug
Cat. No. 64-8801

Multimedia Headphone with Boom Type Dynamic Microphone
Cat. No. 64-8821

Shielded Speaker w/240 Watt (17-20 W RMS) Amp
Cat. No. 64-8828

Magnetically Shielded/2 Channel Stereo Amplifier/Power Output 140 Watts (PMPO)/Volume Controls/Full Range Response
Cat. No. 64-8861



Mounting Hardware

The hardware in this section has been added to make it convenient for you to add accessories to your PC.

Mounting Rails for Use with 3.5" Size Disk Drives or Tape Back-ups
Cat. No. 45-3500

Disk drive Mounting Kit Frame & Faceplate
Cat. No. 45-3502

S.O.H.O. (SMALL OFFICE HOME OFFICE) ACCESSORIES



64-353

Cleaners & Maintenance

Keeping your PC clean on the inside is just as important as keeping it dusted. The dust and contaminants within your drive mechanisms can cause false readings, loss of data, and read/write errors.

Disk Drive Cleaner, Wet/Dry System
Cat. No. 64-353



64-354

CD Drive Lens Cleaner, with Brush
Cat. No. 64-354



44-275

Portable Vacuum, Battery Powered
Cat. No. 44-275



64-301

Comfort Accessories

These items offer the computer user both comfort and efficiency when using their work center. They include mouse pads, scanner pads (with built-in grids), and wrist rest.

Mouse Pad, 8.5" x 10" (4) Colors Sold in Display Carton of (12) (colors = red, green, blue & gray)
Cat. No. 64-301

Scanner & Mouse Pad

Cat. No. 64-302

Keyboard Pad & Wrist Rest
Cat. No. 64-303



64-302



64-303



44-135

Storage Devices

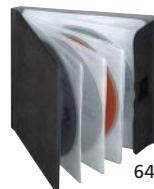
GC Electronics offers a large variety of home office items to make your workstation more efficient and more comfortable. Our storage devices are durable, functional and versatile.

Flip-Top Diskette Storage Box, holds (10) diskettes
Cat. No. 44-135



64-3502

Diskette Storage Cases, holds (2) diskettes / (4) pack
Cat. No. 64-3502



64-1212

CD Portable Cases, Soft Sides Holds (12) CD's
Cat. No. 64-1212



64-1214

Economy CD Portable Cases, Soft Sides Holds (12) CD's
Cat. No. 64-1214



64-1221

Deluxe CD Jewel Box for storage of loose disks / (4) pack protect your CD's from getting scratched or damaged.

Cat. No. 64-1221



64-3550

Diskette Storage File, holds (50) diskettes w/key
Cat. No. 64-3550



64-1220

Stackable CD Storage File, holds (20) CD's
Cat. No. 64-1220

WORKSTATION ACCESSORIES & INPUT DEVICES

Workstation Accessories

With more time being spent at the computer, it is important the workstation be comfortable and efficient. The accessories offered will help make your computer time not only more enjoyable but also more productive.

64-1250



Bi-Directional Document Holder, Attaches to Monitor
Cat. No. 64-1250

64-455



CPU Stand Adjustable 4.75" -6.75"
Cat. No. 64-455



64-1041

Under Carriage Keyboard Drawer with Deluxe Ball-bearing Slides
Cat. No. 64-1041

64-454



Deluxe Adjustable Monitor Arm, Holds up to 50 lbs.
Cat. No. 64-454

64-138



Deluxe Mouse Holder with Pen Storage. Attaches with Double Sticky Tape.
Cat. No. 64-138

64-140



Mice

These are Opto-mechanical devices for use on most types of computer systems.

(3) Button Serial Mouse

- Compatible w/IBM® PC, XT AT/386/486/PS/2®
- Compatible with all major application software

64-141



Serial Mouse with Software, Uses DB9 (F) Connector
Cat. No. 64-140

Ergonomic (3) Serial Mouse

- Ergonomic design fits the palm of your hand
- Resolution 20 dpi-6400 dpi
- Fast tracking (500 mm/sec)

64-146



Ergonomic Mouse with Software, Uses DB9 (F) Connector
Cat. No. 64-141

(2) Button PS/2® Mouse

- Resolution up to 420 dpi
- Fast tracking (650 mm/sec)

PS/2® mouse with software, uses MD6 (M) connector
Cat. No. 64-146

Keyboards



Windows '95 compatible
104 programmable keys

PC / XT AT Style with Cord & D5 (M) Plug
Cat. No. 64-145



IBM PS2® Compatible with Cord & MD6 (M) Plug
Cat. No. 64-142

GENDER CHANGERS/PORT PROTECTORS/ADAPTERS



Gender Changers

The Gender Changers are designed to make it simple to adapt ports and cables to your particular needs. A gender changer has the same configuration on both ends (i.e. male / male or female to female) of the device in order to change the cable or port. A port protector is designed to SAVE or Strengthen the I/O port from wear and tear when continually plugging and unplugging a device or cable.

Full Size, DB25 (M)/(M)
Cat. No. 45-500

Full Size, DB25 (F)/(F)
Cat. No. 45-505

Low Profile, DB25 (M)/(M)
Cat. No. 45-507

Low Profile, DB25 (F)/(F)
Cat. No. 45-508

Double Shielded, DB25 (M)/(M)
Cat. No. 45-4100

Double Shielded, DB25 (F)/(F)
Cat. No. 45-4101

Full Size, DB9 (M)/(M)
Cat. No. 45-510

Full Size, DB9 (F)/(F)
Cat. No. 45-515

Low Profile, DB9 (M)/(M)
Cat. No. 45-517

Low Profile, DB9 (F)/(F)
Cat. No. 45-518

Full Size, DB15 (M)/(M)
Cat. No. 45-520

Full Size, DB15 (F)/(F)
Cat. No. 45-525

Low Profile, DB15 (M)/(M)
Cat. No. 45-527

Low Profile, DB15 (F)/(F)
Cat. No. 45-528

Low Profile, DB37 (M)/(M)
Cat. No. 45-540

Low Profile, DB37 (F)/(F)
Cat. No. 45-543

Full Size, HD15 (M)/(M)
Cat. No. 45-560

Full Size, HD15 (F)/(F)
Cat. No. 45-561

Full Size, CEN36 (M)/(M)
Cat. No. 45-530

Full Size, CEN36 (F)/(F)
Cat. No. 45-533



Port Protectors

Full Size, DB25 (M)/(F)
Cat. No. 45-506

Low Profile, DB25 (M)/(F)
Cat. No. 45-509

Full Size, DB9 (M)/(F)
Cat. No. 45-516

Low Profile, DB9 (M)/(F)
Cat. No. 45-519

Full Size, HD15 (M)/(F)
Cat. No. 45-562

Low Profile, HD15 (M)/(F)
Cat. No. 45-563

Full Size, DB15 (M)/(F)
Cat. No. 45-526

Low Profile, DB37 (M)/(F)
Cat. No. 45-545

Port Adapters

These connectors are used to change the I/O (input/output) ports from one type of connector to another. They are most commonly used when hooking up peripheral devices such as a monitor or printer to your PC.

Serial to Modem, DB9 (M)/DB25 (F)

Cat. No. 45-512

IBM® to H.P. Plotter Adapter, DB9 (F)/DB25 (M)

Cat. No. 45-587

IBM® to Modem, DB9 (F)/DB25 (M)

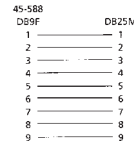
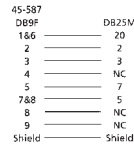
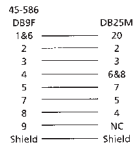
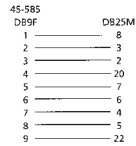
Cat. No. 45-585

IBM® Serial Printer Adapter, DB9 (F)/DB25 (M)

Cat. No. 45-586

Straight Thru, DB9 (F) / DB25 (M)

Cat. No. 45-588



Low Profile Serial Adapter, DB9 (M)/DB25 (F)

Cat. No. 45-2510

Low Profile Serial Adapter, DB9 (F) / DB25 (M)

Cat. No. 45-2511

Low Profile Serial Adapter, DB9 (F)/DB25 (F)

Cat. No. 45-2509

Low Profile Serial Adapter, DB9 (M)/DB25 (M)

Cat. No. 45-2512

Monitor Adapter, HD15 (M)/DB25 (M)

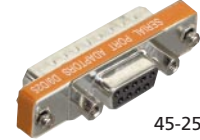
Cat. No. 45-652



45-512



45-585



45-2511



45-2510



45-652

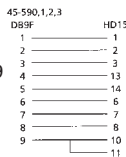
ADAPTERS

Monitor Adapters

Connect a VGA Monitor to your PC

Monitor Adapter DB9 (F)/HD15 (F)

Cat. No. 45-590



Monitor Adapter DB9 (F)/HD15 (M)

Cat. No. 45-591

Monitor Adapter DB9 (M)/HD15 (F)

Cat. No. 45-592

Monitor Adapter DB9 (M)/HD15 (M)

Cat. No. 45-593



Print Adapters

DB25 (F) / CEN36 (F)

Cat. No. 45-595

DB25 (M) / CEN36 (F)

Cat. No. 45-597

DB25 (F) / CEN36 (M)

Cat. No. 45-598

Keyboard Adapters

Keyboard Adapter D5 (F)/MD6 (M) 6"

Cat. No. 45-570

Keyboard Adapter D5 (F)/MD6 (M)

Cat. No. 45-573

Keyboard Adapter D5 (M)/MD6 (F) 6"

Cat. No. 45-571



45-568

Keyboard "Y" Adapter

MD6 (M)/(2) MD6 (F) 6"

Cat. No. 45-568

Monitor "Y" Adapter

Connect (2) monitors to (1) PC

HD15 (M) / (2) HD15 (F)

Cat. No. 45-569



Joystick "Y" Adapter

DB15 (M) / (2) DB15 (F) 6"

Cat. No. 45-566





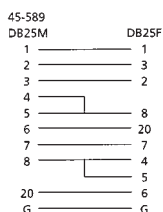
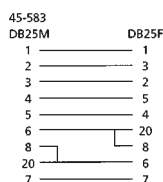
Null Modem Adapters

Standard Type
DB25 (M)/(F)
Cat. No. 45-582

Full Handshake
DB25 (M)/(F)
Cat. No. 45-583

No-Handshake
DB25 (M)/(F)
Cat. No. 45-584

Standard Type #1
DB25 (M)/(F)
Cat. No. 45-589



SCSI Adapters

These adapters make it easy to connect two different types of SCSI devices without purchasing expensive cabling.



SCSI 1 to SCSI 2 Adapter, CEN50 (F)/H.P. DB68 (M)
Cat. No. 45-802



SCSI 1 to SCSI 3 Adapter, CEN50 (F)/H.P. DB68 (M)
Cat. No. 45-807



SCSI 2 to SCSI 1 Adapter, H.P. DB50 (M)/DB25 (F)
Cat. No. 45-864

SCSI 2 to SunMicro Adapter, H.P. DB50 (M)/DB50 (F)
Cat. No. 45-865



Mouse Adapters

These adapters make it possible to connect a serial mouse to your IBM PS/2® computer.



Serial Mouse to PS/2, DB9 (M)/MD6 (M) 6" **Cat. No. 45-888**



Serial Mouse to PS/2, DB9 (M)/MD6 (M) **Cat. No. 45-578**



PS/2 Mouse to IBM® AT, DB9 (F)/MD6 (F) **Cat. No. 45-579**

These adapters make it possible to connect a Serial Mouse to a MAC® computer.



MAC® Mouse to IBM® AT, DB9 (M)/MD8 (F) **Cat. No. 45-574**

Serial Mouse to MAC®, DB9 (M)/MD8 (F) **Cat. No. 45-577**

DATA SWITCHES

- No power required

- Fully shielded metal case with no-mar feet

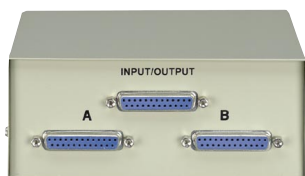
- Hard wired rotary switch with all connector pins wired

"D-Sub" Type Manual Switches

The switches are intended to be used for switching low current data signals. All pins are wired through the switch. These switches can be used on either serial or parallel applications.

*Complies with IEEE 1284 Standards

64-2001



Manual Data Switch, DB25 A/B
Cat. No. 64-2001

Manual Data Switch, DB25 A/B/C
Cat. No. 45-2002

Manual Data Switch, DB25 A/B/C/D
Cat. No. 45-2005

Manual Data Switch, DB25 A/B/C/D/E
Cat. No. 45-2006

Manual Data Switch, DB25 "X" (Cross Wired)
Cat. No. 45-2008

Manual Bi-Directional Data Switch, DB25 A/B
***Cat. No. 45-2220**

Manual Bi-Directional Data Switch, DB25 A/B/C/D
***Cat. No. 45-2221**

45-2046



Manual Data Switch, DB15 A/B
Cat. No. 45-2045

Manual Data Switch, DB15 A/B/C
Cat. No. 45-2046

Manual Data Switch, DB15 A/B/C/D
Cat. No. 45-2047

45-2036



Manual Data Switch, DB9 A/B
Cat. No. 45-2030

Manual Data Switch, DB9 A/B/C/D
Cat. No. 45-2035

Manual Data Switch, DB9 "X"
Cat. No. 45-2036



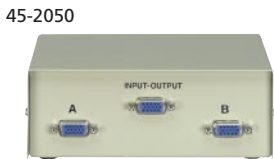
"D-Sub" Type Auto Switches
Parallel Auto Switch, DB25 A/B
Cat. No. 45-2091



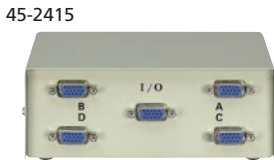
Bi-Directional Auto switch DB25 A/B
***Cat. No. 45-2225**



8-Way Auto Switch, DB25
A/B/C/D/E/F/G/H
Cat. No. 45-2580



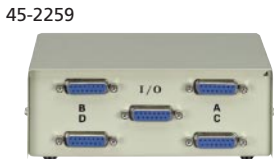
Monitor Data Switches
Manual Data Switch, HD15 A/B
Cat. No. 45-2050



Manual Data Switch, HD15 A/B/C/D
Cat. No. 45-2415



Manual Data Switch, HD15 "X"
Cat. No. 45-2054



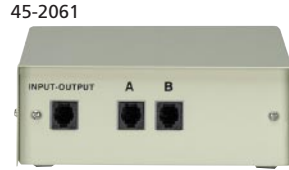
Manual Data Switch, HD15 + D5 A/B
Cat. No. 45-2255



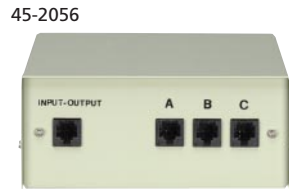
Manual Data Switch, HD15 + MD6
A/B/C/D
Cat. No. 45-2259



Manual Data Switch, D5 A/B
Cat. No. 45-2205



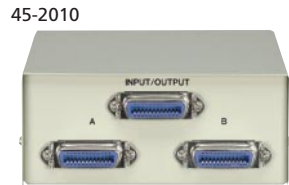
Telephone, Voice & Data Switches
These switches can be used on either voice or data applications.



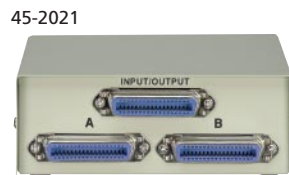
Manual Data Switch, RJ11 (4c) A/B
Cat. No. 45-2061



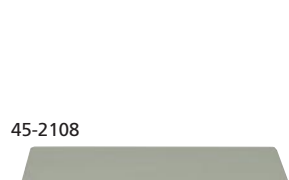
Manual Data Switch, RJ11 (4c) A/B/C/D
Cat. No. 45-2064



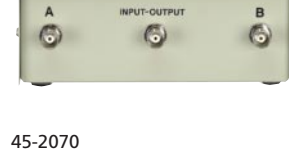
Manual Data Switch, RJ11 (4c) "X"
Cat. No. 45-2065



Manual Data Switch, RJ45 (8c) A/B
Cat. No. 45-2055



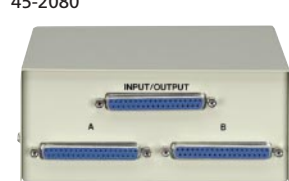
Manual Data Switch, RJ45 (8c) A/B/C
Cat. No. 45-2056



Manual Data Switch, RJ45 (8c) "X"
Cat. No. 45-2060



Centronics Type Switch
Parallel Data Switch
Manual Data Switch, CEN24 A/B
Cat. No. 45-2010



Manual Data Switch, CEN36 A/B
Cat. No. 45-2021

Manual Data Switch, CEN36 A/B/C
Cat. No. 45-2022

Specialty Switches
Manual Switch, BNC A/B
Cat. No. 45-2108

Manual Switch, BNC "X"
Cat. No. 45-2119

Manual MAC Switch, MD8 A/B
Cat. No. 45-2070

Manual MAC Switch, MD8 A/B/C/D
Cat. No. 45-2075

Manual Switch, DB37 A/B
Cat. No. 45-2080

COMPUTER CONNECTORS

45-1060 "D-Sub" Type Connectors
 The GC connectors are provided with the back shells for ease of adding or replacing a cable end. All pins are GOLD plated and the back shells are available in PVC Plastic or Die-cast for shielding purposes.

45-1081 DB25 Solder Type
 DB25 (M) + PVC Shell
Cat. No. 45-1060
 DB25 (F) + PVC Shell
Cat. No. 45-1061
 DB25 (M) + Die-cast Shell
Cat. No. 45-1080
 DB25 (F) + Die-cast Shell
Cat. No. 45-1081

45-1035 DB9 Solder Type
 DB9 (M) + PVC Shell
Cat. No. 45-1035
 DB9 (F) + PVC Shell
Cat. No. 45-1036
 DB9 (M) + Die-cast Shell
Cat. No. 45-1040
 DB9 (F) + Die-cast Shell
Cat. No. 45-1041

45-1131 DB9 Solder Type
 DB15 (M) + PVC Shell
Cat. No. 45-1131
 DB15 (F) + PVC Shell
Cat. No. 45-1132
 DB15 (M) + Die-cast Shell
Cat. No. 45-1140
 DB15 (F) + Die-cast Shell
Cat. No. 45-1141

Insulation Displacement Connectors

These IDC connectors need no soldering. They use ribbon cable (flat cable with conductors side by side) and the pins within the connectors pierce the insulation and make contact with the conductors.

45-1070 DB25 IDC Type
 IDC-DB25 (M)
Cat. No. 45-1070
 IDC-DB25 (F)
Cat. No. 45-1071

45-1031 DB9 IDC Type
 IDC-DB9 (M)
Cat. No. 45-1030
 IDC-DB9 (F)
Cat. No. 45-1031

45-1001 Centronics IDC Type
 IDC--CEN36 (M)
Cat. No. 45-1000
 IDC--CEN36 (F)
Cat. No. 45-1001

"D-Sub" Hoods

With the color coded "D-Sub" hoods listed here, you can key each type of cable or department location with different colored hoods. This makes it easy to locate a particular cable when tracing a problem or changing a location. These hoods are made of PVC material and come with the hardware.

45-5008 DB25 Hoods
 PVC Grey Hoods
Cat. No. 45-5008
 PVC Black Hoods
Cat. No. 45-5018
 PVC Blue Hoods
Cat. No. 45-5041
 PVC Green Hoods
Cat. No. 45-5042
 PVC Red Hoods
Cat. No. 45-5043
 PVC Yellow Hoods
Cat. No. 45-5045

45-5006 DB9 Hoods
 PVC Grey Hoods
Cat. No. 45-5006
 PVC Black Hoods
Cat. No. 45-5016
 PVC Blue Hoods
Cat. No. 45-5021
 PVC Green Hoods
Cat. No. 45-5022
 PVC Red Hoods
Cat. No. 45-5023

45-5007 DB15 Hoods
 PVC Grey Hoods
Cat. No. 45-5007
 PVC Black Hoods
Cat. No. 45-5017
 PVC Blue Hoods
Cat. No. 45-5024
 PVC Green Hoods
Cat. No. 45-5031
 PVC Red Hoods
Cat. No. 45-5033
 PVC Yellow Hoods
Cat. No. 45-5035

Din Plugs

45-1151
 The DIN connector is used for replacement and/or repair of keyboards, mice and other input devices. The connectors are solder type.

45-1152 MD3 (M)
Cat. No. 45-1151

45-1152 MD8 (M)
Cat. No. 45-1152

45-1166 MD6 (M)
Cat. No. 45-1166

45-1167 MD6 (F)
Cat. No. 45-1167

45-1155 D5 (M) 180°
Cat. No. 45-1155

45-1165 D5 (F) 180°
Cat. No. 45-1165

Bulk Computer Wire

45-1511
 GC's bulk cable has a mylar foil shield plus 85% copper braided shield for better elimination of unwanted signals.

9c Double Shielded 7'
Cat. No. 45-1541

9c Double Shielded 100'
Cat. No. 45-1511

25c Double Shielded 100'
Cat. No. 45-1527

WALL MOUNT FACEPLATES

Stainless Steel Wall Plates

Attractive and durable brushed stainless steel wall plates fit standard electrical boxes.

DB25 Single
Cat. No. 45-900

DB25 Double
Cat. No. 45-902

DB9 Single
Cat. No. 45-910

BNC Single
Cat. No. 45-920

BNC Double
Cat. No. 45-922

Keystone Style Face Plates

1 Port
Cat. No. 45-921

2 Port
Cat. No. 45-923

3 Port
Cat. No. 45-924

4 Port
Cat. No. 45-925



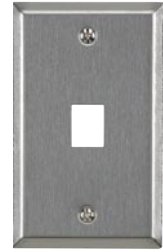
45-902



45-910



45-920



45-921

TOOLS & TESTERS



Computer Tool Kit

- Kit Contains:**
- 2 – Slotted Screwdrivers
 - 2 – Phillips Screwdrivers
 - 2 – Nutdrivers
 - 1 – Reversible Torx Screwdriver
 - 1 – Insertion Tool or Parts Tube
 - 1 – 3-Claw Parts Holder
 - 1 – Tweezer
 - 1 – Vinyl Zipper Case.

Cat. No. 44-350



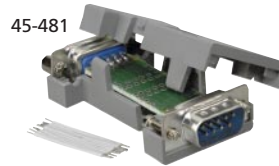
Breakout Box (RS232 Type)

This portable, pocket size test set provides access to all 25 conductors of the RS232 interface between the data terminal and the data modem. Ten LED's monitor the status at the source of the primary signals (TD, RD, RTS, CTS, DSR, CD, TC, RC, DTR & TC) and (2) additional LED's scan the dip switches.

RS232 Breakout Box, with jumper wires & case
Cat. No. 45-491



45-480



45-481

Port Reconfiguration Kits

These RS232 jumper boxes have both male & female connectors mounted on a printed circuit board with pads for soldering connections and a bus area for tying lines together. A snap-on re-usable shell is provided to protect your connections and make the unit into a permanent adapter.

DB25 (M)/(F) + Hardware
Cat. No. 45-480

DB9 (M)/(F) + Hardware
Cat. No. 45-481



45-581

Surge Protector

Built in MOV (Metal Oxide Varistors) provide protection on (5) data lines.

DB25 (M)/(F)
***Cat. No. 45-581**

Testers

The GC Electronics testers are designed to test the operation of your computer circuit to help isolate a problem or to map the pin-out configuration of the circuit in question.

Quick Port Checker, DB25 (M)/(F) 7 LED's. This is a loopback tester which provides testing (&) pairs of RS232 (for testing RD, TD, RTS, CTS, DSR, CD & DTR)

Cat. No. 45-580

Port Tester, DB25 (M)/(F) 18 LED's. This tester provides quick testing of (9) of the most circuits with (9) pairs LED's

Cat. No. 45-1518



45-580



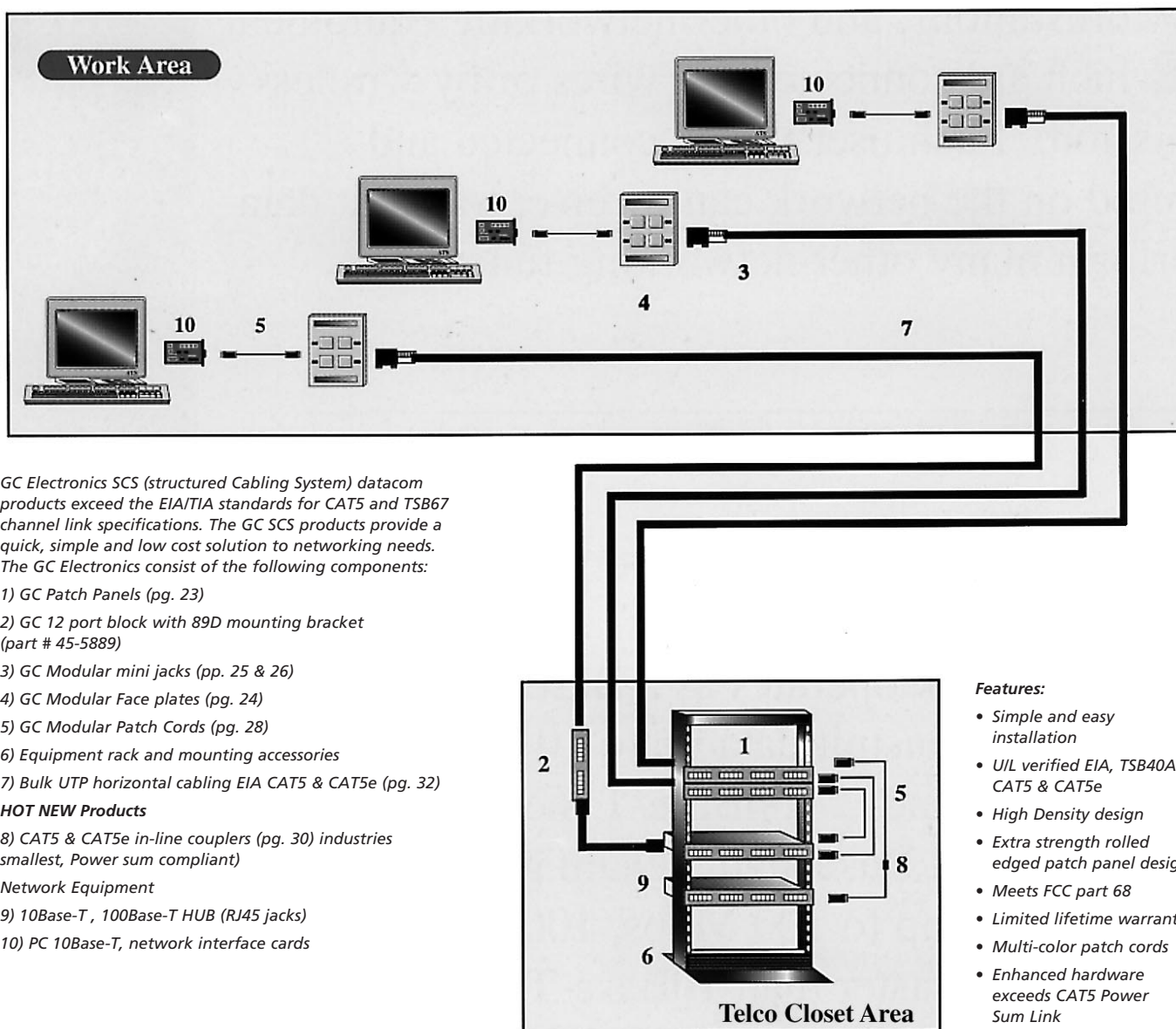
45-1518

Typical 10Base-T Structured Cabling System Installation

10Base-T Ethernet is one of the most used and popular LAN networks today. Currently over 80% of all installed LAN's are Ethernet base. 10Base-T Ethernet is popular because of its excellent balance between low cost, data speed and ease of installation. The 10Base-T Ethernet standard is defined by the institute of Electrical and Electronic Engineers (IEEE) as IEEE 802.3. The IEEE 802.3 Ethernet standards defines,

- The operating data speed, 10 Mega-bytes per second (10 Mbps)
- Cabling type Unshielded Twisted Pair (UTP)
- Transmitting and receiving wire pins, 1 (TD+), 2 (TD-), (3 RD+), 6 (RD-)
- Maximum CAT5 distances per segment 100 meters (324 feet), including patch cords
- RJ45 8 position modular jack
- Star topology (cabling configuration where each computer is connected to a central HUB)

10Base-T Ethernet requires a minimum of EIA CAT5 rated cabling components, but EIA category 5 cabling is highly recommended for future speed network expectation.



GC Electronics SCS (structured Cabling System) datacom products exceed the EIA/TIA standards for CAT5 and TSB67 channel link specifications. The GC SCS products provide a quick, simple and low cost solution to networking needs. The GC Electronics consist of the following components:

- 1) GC Patch Panels (pg. 23)
- 2) GC 12 port block with 89D mounting bracket (part # 45-5889)
- 3) GC Modular mini jacks (pp. 25 & 26)
- 4) GC Modular Face plates (pg. 24)
- 5) GC Modular Patch Cords (pg. 28)
- 6) Equipment rack and mounting accessories
- 7) Bulk UTP horizontal cabling EIA CAT5 & CAT5e (pg. 32)

HOT NEW Products

- 8) CAT5 & CAT5e in-line couplers (pg. 30) industries smallest, Power sum compliant)

Network Equipment

- 9) 10Base-T, 100Base-T HUB (RJ45 jacks)
- 10) PC 10Base-T, network interface cards

Features:

- Simple and easy installation
- UJL verified EIA, TSB40A CAT5 & CAT5e
- High Density design
- Extra strength rolled edged patch panel design
- Meets FCC part 68
- Limited lifetime warranty
- Multi-color patch cords
- Enhanced hardware exceeds CAT5 Power Sum Link

MODULAR PATCH PANELS

Use these attractive and durable black anodized patch panels to bring your network from the equipment closet, or entrance facility to the work area. These panels give you a place to consolidate your cable runs, not only for your CAT5 cable runs but your audio, video and telephone as well.

- Panels are .09" thick and can be mounted on a 19" EIA rack.
- Available in fully populated models with CAT5 modular jacks or pre-punched with square mounting holes for use with other inserts

CAT5 Modular Patch Panels

- These patch panels are available in 12, 16, 24, 48 port models
- Panel contains 110 style CAT5 connectors
- Meets FCC sub-part 68 requirements
- Insertion life – 750 cycles minimum
- Temperature range -40°F to 200°F
- Enhanced PCB design technology provides reliable performance up to CAT5 (100 Mhz, 8 wires)
- Jacks are numbered and have white write-on area

Patch Panel (12) port CAT5, size 1.75" x 19"

Cat. No. 45-5697

Patch Panel (16) port CAT5, size 1.75" x 19"

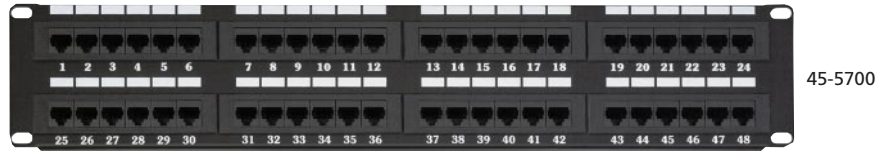
Cat. No. 45-5698

Patch Panel (24) port CAT5, size 1.75" x 19"

Cat. No. 45-5699

Patch Panel (48) port CAT5, size 3.5" x 19"

Cat. No. 45-5700



Flexible Modular Patch Panels

- Pre-punched for standard wall plate adapters or Modular jacks
- Most commonly used where mixing of media is needed
- Will accommodate Video, CAT5, telephone & Audio Jacks

Patch Panel (16) station, size 1.75" x 19"

Cat. No. 45-5224

Patch Panel (24) station, size 1.75" x 19"

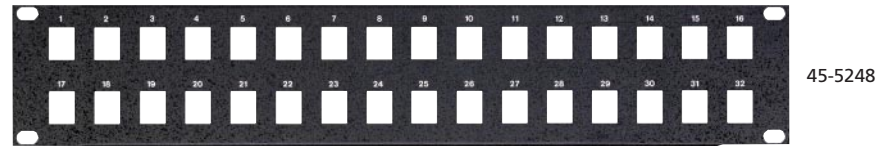
Cat. No. 45-5238

Patch Panel (32) station, size 3.5" x 19"

Cat. No. 45-5248

Patch Panel (48) station, size 5.25" x 19"

Cat. No. 45-5270



CAT5e Universal 110 Style

- Panels are .120" thick pr. .090 rolled edge black painted Aluminum with white write-on blocks
- Meets FCC Sub-part 68 requirements
- Insertion life 750 cycles minimum
- Temperature range -40° -200°F
- Pre-assembled rear cable holders for quick and easy wire management
- Front & rear port numbering for Horizontal LAN cable path locations
- Contacts = Phosphor Bronze alloy with a minimum of 50 micro inches of GOLD plating over Nickel
- Wire range = 22-26 AWG insulated or stranded wire
- U/L listed (file No. E173068)
- Exceeds EIA568A & TSB-40A CAT5e requirements
- Enhanced PCB (printed circuit board) Technology for reliable performance up to 155 Mhz
- Panels are available in 12, 24, 48 & 96 port sizes
- Mini Panels has 12 vertical ports with a wall mount bracket
- Standard Panels meet the EIA standard of 19" width

(12) Port Mini Panel T568B Dimensions: 1.75" H x 19" W

Cat. No. 45-5889

(96) Port Panel T568B Dimensions: 7.0" H x 19" W

Cat. No. 45-5896



WALL PLATES

Multimedia Wall Plates

These wall plates are uniquely designed to minimize your inventory and still give you the flexibility to color-code each department or work station area. This is done through the use of color-coded inserts.

Single Gang (1) Port, White
Cat. No. 45-5651

Single Gang (2) Port, White
Cat. No. 45-5652

Single Gang (3) Port, White
Cat. No. 45-5654

Single Gang (4) Port, White
Cat. No. 45-5653

Single Gang (6) Port, White
Cat. No. 45-5655

Double Gang (4) Port, White
Cat. No. 45-5656

Double Gang (6) Port, White
Cat. No. 45-5657

Double Gang (8) Port, White
Cat. No. 45-5658



45-5651



45-5652



45-5654



45-5655



45-5656



45-5658

Standard Datacom Wall Plates

These wall plates allow custom modular connectors, BNC and "F" connectors to be installed quickly. Use to transmit voice or data in any network environment and install or remove equipment in minutes without any special tools.

Single Gang (1) Port, Ivory
Cat. No. 45-950

Single Gang (2) Port, Ivory
Cat. No. 45-938

Single Gang (3) Port, Ivory
Cat. No. 45-933

Single Gang (4) Port, Ivory
Cat. No. 45-934

Single Gang (6) Port, Ivory
Cat. No. 45-936

Single Gang (1) Port, White
Cat. No. 45-5633

Single Gang (2) Port, White
Cat. No. 45-5634

Single Gang (3) Port, White
Cat. No. 45-5635

Single Gang (4) port, White
Cat. No. 45-5636

Single Gang (6) port, White
Cat. No. 45-5637



45-938



45-933



45-934



45-5633



45-5637

Electrical Style Designer Wall Plates

The electrical style wall plates is made to look like your standard electrical outlet and will mount to a standard electrical box.

Single Gang (1) Port Base, Ivory
Cat. No. 45-961

Single Gang (1) Port Base, White
Cat. No. 45-5961

Single Gang (1) Port Face Plate, Ivory
Cat. No. 45-960

Single Gang (1) Port Face Plate, White
Cat. No. 45-5960

Single Gang (2) Port Base, Ivory
Cat. No. 45-962

Single Gang (2) Port Base, White
Cat. No. 45-5962

Single Gang (2) Port Face Plate, Ivory
Cat. No. 45-963

Single Gang (2) Port Face Plate, White
Cat. No. 45-5963



45-5961

45-5961



45-962

45-963



45-971

45-972



45-5974



45-5982

Decor Style Designer Wall Plates

Single Gang (1) port Base, Ivory
Cat. No. 45-971

Single Gang (1) port Base, White
Cat. No. 45-5971

Single Gang (2) port Base, Ivory
Cat. No. 45-972

Single Gang (2) port Base, White
Cat. No. 45-5972

Single Gang (3) port Base, Ivory
Cat. No. 45-973

Single Gang (3) port Base, White
Cat. No. 45-5973

Single Gang Face Plate, Ivory
Cat. No. 45-974

Single Gang Face Plate, White
Cat. No. 45-5974

Angled Face Plates

Allows modular jacks, BNC, and "F" connectors to be installed quickly.

Modular (1) Port, White
Cat. No. 45-5981

Modular (2) Port, White
Cat. No. 45-5982

Modular (4) Port, White
Cat. No. 45-5984

MODULAR JACKS



45-5759-BU front



45-5759-BU back



45-5765-BU



45-5766-BU



45-5550 front



45-5550 back



45-5552



45-5674



45-5675 front



45-5675 back



45-5677

90° 110 Style Modular CAT5 Jacks

- Designed to be used with the 110 type punch-down tool
- 90° Configuration cable orientation
- The mini jack universal design will fit in most keystone hole openings: AMP, Hubbell, Krone, ICC or other .58" x .76" standard sizes.
- Temperature range -40°F to 200°F
- The 110 IDC contacts will accommodate 22-26 AWG solid wire
- Available in multiple colors

Combo Jack T568 (A/B), Ivory
Cat. No. 45-5759-BU

Combo Jack T568 (A/B), Black
Cat. No. 45-5760-BU

Combo Jack T568 (A/B), Red
Cat. No. 45-5762-BU

Combo Jack T568 (A/B), Yellow
Cat. No. 45-5764-BU

Combo Jack T568 (A/B), Green
Cat. No. 45-5765-BU

Combo Jack T568 (A/B), Blue
Cat. No. 45-5766-BU

Combo Jack T568 (A/B), White
Cat. No. 45-5769-BU

180° 110 Style CAT5 Modular Jacks

- Designed to be used with the 110 type punch-down tool
- 180° Configuration cable orientation
- The mini jack universal design will fit in most keystone hole openings: AMP, Hubbell, Krone, ICC or other .58" x .76" standard sizes.
- Temperature range -40°F to 200°F
- The 110 IDC contacts will accommodate 22-26 AWG solid wire
- Available in multiple colors

Combo Jack T568 (A/B), Black
Cat. No. 45-5550

Combo Jack T568 (A/B), Ivory
Cat. No. 45-5551

Combo Jack T568 (A/B), Blue
Cat. No. 45-5552

Combo Jack T568 (A/B), Red
Cat. No. 45-5553

Combo Jack T568 (A/B), White
Cat. No. 45-5554

Combo Jack T568 (A/B), Yellow
Cat. No. 45-5555

Combo Jack T568 (A/B), Green
Cat. No. 45-5216

Modular CAT5 Keystone Jacks IDC Type

- IDC (insulation displacement contacts) style connectors
- **No punch-down tool is needed**
- Flip-top plastic lids aid wire installation & protection
- Jack comes with key lock to prevent accidental opening of lid
- The mini jack universal design will fit in most keystone hole openings: AMP, Hubbell, Krone, ICC or other .58" x .76" standard sizes
- Temperature range -40°F to 200°F
- The 110 IDC contacts will accommodate 22-26 AWG solid wire
- Available in multiple colors

Combo Jack T568 (A/B), Black
Cat. No. 45-5674

Combo Jack T568 (A/B), Ivory
Cat. No. 45-5675

Combo Jack T568 (A/B), White
Cat. No. 45-5676

Combo Jack T568 (A/B), Green
Cat. No. 45-5677

Combo Jack T568 (A/B), Yellow
Cat. No. 45-5678

Combo Jack T568 (A/B), Red
Cat. No. 45-5679

Combo Jack T568 (A/B), Blue
Cat. No. 45-5680

MINI JACKS



45-5560



45-6750

CAT5e Universal, 110 Style

This series of 110 jacks is compliant with "PowerSum" products and specifications. The mini jacks exceed EIA 568-A, TSB-40A and DIS11801 category 5e standard. These devices consist of hardware that is designed to support data speed transmissions up to Asynchronous Transfer Mode (ATM) of 155 Mbps (mega bits per second). The CAT5e mini jacks are PowerSum tested with a sweep frequency bandwidth of 1-155 MHz. By designing and testing a system using CAT5e mini jacks you are extending the frequency bandwidth of the system and further guarantee the reliable speed of the system as well as extending the life of your installation.

- Our mini jacks are of universal design to fit most standard keystone openings
- The Material is high impact plastic, Flame retardant U/L-rated 94V-0 thermoplastic
- Insertion life – 150 cycles minimum
- Temperature range -40° – 200°F
- Contacts = Phosphor Bronze alloy with a minimum of 50 micro inches of GOLD plating over Nickel
- Wire range = 22-26 AWG insulated or stranded wire
- U/L listed (file No. E173068)
- Exceeds EIA568A & TSB-40A CAT5e requirements
- Mini jacks are available in multi-colors
- Uses 90° IDC 110 style connections
- Enhanced PCB (printed circuit board) Technology for reliable performance up to 155 Mhz

Ivory

Cat. No. 45-5562

Black

Cat. No. 45-5560

White

Cat. No. 45-5569

GIGASYS-6 CAT6 System, 110 Style

This GigaSYS-6 Mini Jack is the latest developed for higher performance UTP (Unshielded Twisted Pair) end to end cabling systems. The device is one of the key elements to meet the ISO/IEC 11801 Class E/category 6 Annex G, CENELEC 50173 Annex E and TIA/EIA category 6 and basic link specifications. The GigaSYS-6 Mini Jack utilize Balance-XTI Technology™. Balance-XTI Technology™ is the combined use of balance noise removal (Crosstalk) and signal reflection (Return Loss) control circuitry. These devices will provide a 100% less noise over EIA CAT5 specifications, improved link impedance and also provides over 100% more usable frequency bandwidth (>250 Mhz)", and is fully backward compatible with CAT5 rated components. With our Giga SYS-6 product you will receive the most optimum performance for both the present and future application such as Giga-bit Ethernet.

- Mini jack universal design fits most standard keystone holes openings .58" x .76"
- U/L rated and made of high impact 94V-0 thermoplastic
- Meets FCC Sub-part 68 requirements
- Insertion life = 750 cycles minimum
- Temperature range is -40° – 200°F
- Contacts, Phosphor Bronze alloy with a minimum 50µ gold plating over Nickel
- 110 IDC range 22-26 AWG insulated solid or stranded wire
- Exceeds EIA568A & TSB-40A CAT5 requirements
- Balance XTI Design Technology
- Enhanced PCB design technology provides reliable performance over 250 Mhz
- Mini jacks are available in multi-colors
- T568A/B wiring
- Backward compatible to CAT5 systems

Ivory

Cat. No. 45-6750

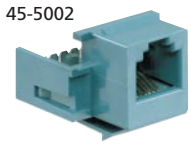
Black

Cat. No. 45-6751

White

Cat. No. 45-6759

INSERTS, BRACKETS & FLUSH TELEPHONE BLOCKS

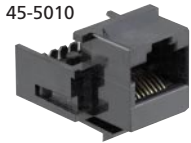


CAT4 Modular Jacks

- These connectors are used on telephone and data low speed requirements
- Capable of speed up to 16 Mhz
- RJ11 & RJ12 both can use the RJ12 (6c) jacks
- IDC contacts with snap-on cover



Black Keystone Jack, 6c (RJ12)
Cat. No. 45-5000



Blue Keystone Jack, 6c (RJ12)
Cat. No. 45-5001



Green Keystone Jack, 6c (RJ12)
Cat. No. 45-5002



Red Keystone Jack, 6c (RJ12)
Cat. No. 45-5003



White Keystone Jack, 6c (RJ12)
Cat. No. 45-5004



Yellow Keystone Jack, 6c (RJ12)
Cat. No. 45-5005



Black Keystone Jack, 8c (RJ12)
Cat. No. 45-5010



Blue Keystone Jack, 8c (RJ45)
Cat. No. 45-5011



Green Keystone Jack, 8c (RJ45)
Cat. No. 45-5012

Red Keystone Jack, 8c (RJ45)
Cat. No. 45-5013

White Keystone Jack, 8c (RJ45)
Cat. No. 45-5014

Yellow Keystone Jack, 8c (RJ45)
Cat. No. 45-5015



Color-Coded Inserts

- These inserts and adapters are used with multimedia wall plates
- Bezels are front loading and jacks snap into them from the rear
- Adapters are available for "F", BNC, modular jacks and blanks



Insert for Modular Jack, Black
Cat. No. 45-5642



Insert for Modular Jack, Red
Cat. No. 45-5643



Insert for Modular Jack, Green
Cat. No. 45-5644



Insert for Modular Jack, Yellow
Cat. No. 45-5645



Insert for modular jack, Blue
Cat. No. 45-5646



Insert for Modular Jack, White
Cat. No. 45-5664



Insert for Modular Jack, Blank
Cat. No. 45-5660



Insert for "F" Connector
Cat. No. 45-5662



Insert Assembly, "ST" Fiber
Cat. No. 45-5661

Insert Assembly, "BNC"
Cat. No. 45-5665

Insert Assembly, "F-81"
Cat. No. 45-5666

Wall Plate Inserts

Use with the standard wall plates to adapt "BNC" and "F" plus blanks

Blank Insert, Ivory
Cat. No. 45-942

Blank Insert, White
Cat. No. 45-5638

Insert for "F" Connector, Ivory
Cat. No. 45-944

Insert for "F" Connector, White
Cat. No. 45-944W-BU

Insert for "BNC" Connector, Ivory
Cat. No. 45-945

Insert Assembly "BNC", White
Cat. No. 45-5640



Flush Mounted Telephone Blocks

- IDC connections for quick, secure installation
- Connectors will accept 22-26 AWG cable
- Use with 110 style punch-down tool
- Voice grade flush jacks, may be wired for either voice or data



Single Flush Jack, 4c (RJ11), Ivory
Cat. No. 45-115



Single Flush Jack, 6c (RJ12), Ivory
Cat. No. 45-116



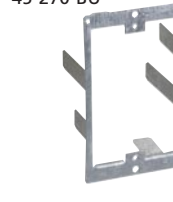
Single Flush Jack, 8c (RJ45), Ivory
Cat. No. 45-117



Dual Flush Jack, 6c (RJ12), Ivory
Cat. No. 45-5100



Dual Flush Jack, 8c (RJ45), Ivory
Cat. No. 45-5102



Dual Flush Jack, (1) 6c (RJ12) & (1) 8c (RJ45), Ivory
Cat. No. 45-5101



Single Face Plate, Ivory
Cat. No. 45-5103



Dual Face Plate, Ivory
Cat. No. 45-5104

Wall Plate Mounting Accessories

These items help you attach low voltage wall plates to almost any surface.



Back box for single gang face plates
Cat. No. 45-5602-BU



Wall plate mounting Bracket for existing construction, metal
Cat. No. 45-270-BU



Quick mounting Bracket for existing construction, plastic
Cat. No. 45-271

MODULAR SURFACE BOXES

Modular CAT5 Surface Mounted Boxes

- Uses 110 style IDC type connection to be used with 110 punch-down tool
- IDC connections allow for a more efficient and time saving installation
- Wire retaining caps-provide additional relief to prevent accidental wire pull-out
- Accepts EIA/TIA standards for CAT5 wiring
- Multiple mounting options (screws and double stick tape) allow for quicker installation in a variety of locations

45-5618



Single Surface Box, White
Cat. No. 45-5618

Single Surface Box, Ivory
Cat. No. 45-5711

Single Low Profile Surface Box, White
Cat. No. 45-5659

45-5712



Single Low Profile Surface Box, Ivory
Cat. No. 45-5710

Dual Surface Box, White
Cat. No. 45-5620

Dual Surface Box, Ivory
Cat. No. 45-5712

45-5663



Single Shielded Surface Box, White
Cat. No. 45-5619

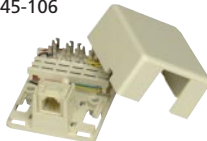
Dual Shielded Surface Box, White
Cat. No. 45-5621

Single Low Profile Shielded Surface Box, White
Cat. No. 45-5663

Modular Surface Boxes CAT4

- Meets the EIA/TIA standards for CAT4
- Type 66 style IDC contacts
- Require a type 66 punch-down tool
- Can be used on 10Base-T and Token Ring systems
- May be used on systems requiring CAT3 or P.O.T.S. (plain old telephone system) wiring as well

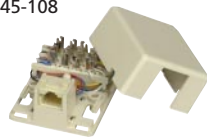
45-106



Surface Mount CAT4 Box, Single 4c (RJ11)
Ivory
Cat. No. 45-106

Surface Mount CAT4 Box, Single 6c (RJ12)
Ivory
Cat. No. 45-109

45-108



Surface Mount CAT4 Box, Single 8c (RJ45)
Ivory
Cat. No. 45-107

Surface Mount CAT4 Box, Single 8c (RJ31X)
with Shorting Bars
Cat. No. 45-108

Combo Voice & Data Surface Boxes

- Designed to quickly install voice & data lines
- To be used in low speed applications
- IDC connections for use with 22-26 AWG cable

Single Surface Mount Voice Grade Box, 4c (RJ11), Ivory
Cat. No. 45-125

Single Surface Mount Voice Grade Box, 6c (RJ12), Ivory
Cat. No. 45-127

Single Surface Mount Voice Grade Box, 8c (RJ45), Ivory
Cat. No. 45-127

Dual Surface Mount Voice Grade Box, 6c (RJ12), Ivory
Cat. No. 45-5105

Dual Surface Mount Voice Grade Box, (1) 6c + (1) 8c, Ivory
Cat. No. 45-5106

Dual Surface Mount Voice Grade Box, 8c, Ivory
Cat. No. 45-5107

45-126



45-5106



DATAKOM PATCH & JUMPER CABLES

These top of the line cables are designed to meet the standards set forth by the TIA/EIA and that you expect from GC Electronics. The jumper or patch cables are used from the HUB to the patch panel, and from the work station to the wall. These cables must be stranded. Jumper cables may be used anywhere that flexibility is required. The maximum cable length or patch cables is 39.6 ft. (or 10M) according to the EIA/TIA standards.



45-6813

CAT5e (Enhanced CAT5) Jumper Cables

- Enhance tested to 350 Mhz
- Meets FCC subpart 68, 50µ" of gold & UL 94VO material specifications
- Four pair (4 pr) 24 AWG UTP stranded U/L, CSA & ETL listed cabling
- Molded strain relief
- Wired to EIA/TIA standard T568B (straight through)

CAT5e Jumper Cable, 8c (RJ45) to 8c (RJ45) 3'
Cat. No. 45-6813



45-6815

CAT5e Jumper Cable, 8c (RJ45) to 8c (RJ45) 5'
Cat. No. 45-6815

CAT5e Jumper Cable, 8c (RJ45) to 8c (RJ45) 7'
Cat. No. 45-6817

CAT5e Jumper Cable, 8c (RJ45) to 8c (RJ45) 10'
Cat. No. 45-6810

CAT5e Jumper Cable, 8c (RJ45) to 8c (RJ45) 14'
Cat. No. 45-6814

CAT5e Jumper Cable, 8c (RJ45) to 8c (RJ45) 25'
Cat. No. 45-6825



45-5682

Stranded CAT5 Cables

- Stranded 24 AWG 4 pr. UTP cable
- PVC jacketed cable
- Wired to T568B standards configuration
- Can be used between two like devices, either T568A or T568B
- RJ45 connectors have 50µ" of Gold and are U/L listed
- All cables are tested and certified to meet the EIA/TIA standards

Grey CAT5 Jumper Cable, 8c (RJ45) to 8c (RJ45) 3'
Cat. No. 45-5281

Grey CAT5 Jumper Cable, 8c (RJ45) to 8c (RJ45) 7'
Cat. No. 45-5282

Grey CAT5 Jumper Cable, 8c (RJ45) to 8c (RJ45) 10'
Cat. No. 45-5696

Grey CAT5 Jumper Cable, 8c (RJ45) to 8c (RJ45) 14'
Cat. No. 45-5301

Grey CAT5 Jumper Cable, 8c (RJ45) to 8c (RJ45) 25'
Cat. No. 45-5303



45-5681

Color-Coded Stranded CAT5 Jumper Cables

Red Jumper Cable, 3'
Cat. No. 45-5681



45-5682

Yellow Jumper Cable, 3'
Cat. No. 45-5682

Blue Jumper Cable, 3'
Cat. No. 45-5683



45-5683

Black Jumper Cable, 3'
Cat. No. 45-5684

Green Jumper Cable, 3'
Cat. No. 45-5685

Red Jumper Cable, 7'
Cat. No. 45-5686

Yellow Jumper Cable, 7'
Cat. No. 45-5687

Blue Jumper Cable, 7'
Cat. No. 45-5688

Black Jumper Cable, 7'
Cat. No. 45-5689



45-5684

Green Jumper Cable, 7'
Cat. No. 45-5690

Red Jumper Cable, 14'
Cat. No. 45-5691

Yellow Jumper Cable, 14'
Cat. No. 45-5695

Blue Jumper Cable, 14'
Cat. No. 45-5692



45-5685

Black Jumper Cable, 14'
Cat. No. 45-5693

Green Jumper Cable, 14'
Cat. No. 45-5694

Red Jumper Cable, 25'
Cat. No. 45-5322

Yellow Jumper Cable, 25''
Cat. No. 45-5324

Blue Jumper Cable, 25'
Cat. No. 45-5326



45-5689

Black Jumper Cable, 25'
Cat. No. 45-5320

Green Jumper Cable, 25'
Cat. No. 45-5325



45-5326

MISCELLANEOUS DATACOM CABLES



45-5714-25

CAT5 Jumper Cables . . . Special Contractor Packs 25 Pieces

- Stranded 24 AWG 4 pr. UTP cable
- PVC jacket
- Wired to T568B standards configuration
- Can be used between two like devices, either T568A or T568B
- RJ45 connectors have 50 μ " of gold and are UL listed
- All cables are tested and certified to meet the EIA/TIA standards

White Jumper Cables, 3'
Cat. No. 45-5763-25

White Jumper Cables, 7'
Cat. No. 45-5761-25

White Jumper Cables, 10'
Cat. No. 45-5714-25

White Jumper Cables, 14'
Cat. No. 45-5715-25

White Jumper Cables, 25'
Cat. No. 45-5716-25



45-1376

Modular Data Cables

- Uses 26 AWG flat stranded P.O.T.S. (plain old telephone system) wire
- Wired straight through for data purposes
- Modular connectors have 6 μ " of gold on the contacts

Use on 4c (RJ11) or
6c (RJ12) systems

Black Data Cable, 6c (RJ12) to 6c (RJ12) 15'
Cat. No. 45-1376

Black Data Cable, 6c (RJ12) to 6c (RJ12) 25'
Cat. No. 45-1378

Use on 8c (RJ45) systems

Black Data Cable, 8c (RJ45) to 8c (RJ45) 15'
Cat. No. 45-1386

Black Data Cable, 8c (RJ45) to 8c (RJ45) 25'
Cat. No. 45-1388



45-1388



45-5803

Ethernet (thin-net) Cables

- These cables are used in LAN (local area networks)
- Maximum run length is 607' per segment
- Cable is RG58 A/U which is 50 Ω impedance and stranded center conductor
- Jumper cables have a BNC connector & molded strain relief on each end

Black Thin-net Cable, BNC (M) to BNC (M) 3'

Cat. No. 45-5803

Black Thin-net Cable, BNC (M) to BNC (M) 6'

Cat. No. 45-5806

Black Thin-net Cable, BNC (M) to BNC (M) 12'

Cat. No. 45-5129

Black Thin-net Cable, BNC (M) to BNC (M) 25'

Cat. No. 45-5130

Black Thin-net Cable, BNC (M) to BNC (M) 50'

Cat. No. 45-5131

Black Thin-net cable, BNC (M) to BNC (M) 75'

Cat. No. 45-5825

Black Thin-net cable, BNC (M) to BNC (M) 100'

Cat. No. 45-5132



45-5315

IBM® Token Ring Cables

This was the original LAN system using a ring topology (loop-to-loop) and each bit of information was passed to the next terminal in the ring.

- Cables are 150 Ω
- Use IBM® type data connector #8642551 & #8642552 or equivalent

Black Token Ring Cable, 4 Pos. Data (M) to DB9 (M) 8'

Cat. No. 45-5315

Black Token Ring cable, 4 Pos. Data (M)/(M) 8'

Cat. No. 45-5316



45-5316

DATAKOM ADAPTERS

GC datacom offers these convenient adapters to convert from one media to another. They come in several different types. Telco adapters allow you to convert from the more expensive RS 232 type cables to the less expensive modular cables. With other adapters you can change equipment from a telephone type wiring system to 10Base-T, or ethernet system.

Telco Adapters

- Allows low cost connections between computers & peripherals
- One piece construction for quick installation
- Available in RJ11, RJ12 & RJ45 to all male & female "D-Sub" connectors
- Telco (telephone) jacks are fully wired
- Pins may be inserted into the "D-Sub" connector to suit your wiring needs



45-5108



45-5113



45-5114



45-5120



45-5121



45-5128

Telco Adapter, 4c (RJ11) to DB9 (M)
Cat. No. 45-5108

Telco Adapter, 4c (RJ11) to DB9 (F)
Cat. No. 45-5113

Telco Adapter, 6c (RJ12) to DB9 (M)
Cat. No. 45-5109

Telco Adapter, 6c (RJ12) to DB9 (F)
Cat. No. 45-5112

Telco Adapter, 8c (RJ45) to DB9 (M)
Cat. No. 45-5110

Telco Adapter, 8c (RJ45) to DB9 (F)
Cat. No. 45-5113

Telco Adapter, 4c (RJ11) to DB15 (M)
Cat. No. 45-5118

Telco Adapter, 4c (RJ11) to DB15 (F)
Cat. No. 45-5114

Telco Adapter, 6c (RJ12) to DB15 (M)
Cat. No. 45-5119

Telco Adapter, 6c (RJ12) to DB15 (F)
Cat. No. 45-5116

Telco Adapter, 8c (RJ45) to DB15 (M)
Cat. No. 45-5120

Telco Adapter, 8c (RJ45) to DB15 (F)
Cat. No. 45-5117

Telco Adapter, 4c (RJ11) to DB25 (M)
Cat. No. 45-5121

Telco Adapter, 4c (RJ11) to DB25 (F)
Cat. No. 45-5125

Telco Adapter, 6c (RJ12) to DB25 (M)
Cat. No. 45-5122

Telco Adapter, 6c (RJ12) to DB25 (F)
Cat. No. 45-5126

Telco Adapter, 8c (RJ45) to DB25 (M)
Cat. No. 45-5123

Telco Adapter, 8c (RJ45) to DB25 (F)
Cat. No. 45-5127

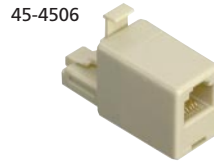
Telco Adapter, 10c (RJ45) to DB25 (M)
Cat. No. 45-5124

Telco Adapter, 10c (RJ45) to DB25 (F)
Cat. No. 45-5128

Telco Jack Adapters

Adapt telephone to 10Base-T and USOC (standard telephone wiring) to CAT5.

USOC (Telephone) RJ12 (F)/8c (RJ45) (M) CAT5
Cat. No. 45-4506



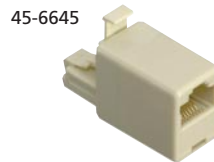
45-4506

USOC (Telephone) RJ45 (M)/8c (RJ45) (F) CAT5
Cat. No. 45-4545



45-4545

USOC 6c RJ12 (M)/8c (RJ45) (F) USOC
Cat. No. 45-6645



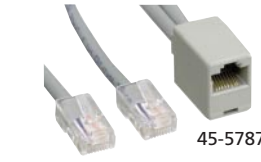
45-6645

CAT5 Extension, 8c (RJ45) (M) to (2) 8c (RJ45) (F)
Cat. No. 45-5786



45-5786

CAT5 Extension, 8c (RJ45) (F) to (2) 8c (RJ45) (M)
Cat. No. 45-5787



45-5787

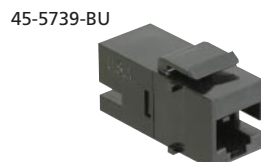
Inline Couplers

CAT5 Coupler, 8c (RJ45) (F)/(F)
Cat. No. 45-5639



45-5639

CAT5e Coupler, 8c (RJ45) (F)/(F)
Cat. No. 45-5739-BU



45-5739-BU

Telco Balun

Adapter BNC (M)/4c (RJ11) (F)
Cat. No. 45-5407



CABLE CONNECTORS & WIRE

Our economical connectors are available in twist-on or crimp-on configurations. We offer the connectors to fit a variety of cable, both PVC & Plenum.

Modular Plenum

RJ-11 4-Conductor (4p4c) – (Handset)



Part No.	Description
30-9912-100	Flat Stranded, 100 Pk., 3 Micron
30-9912	Flat Stranded, 10 Pk., 3 Micron
30-8964-100	Round Stranded, 100 Pk., 15 Micron
30-8964	Stranded, 10 Pk., 15 Micron

RJ-11 4-Conductor (6p4c)



Part No.	Description
30-9910	Flat Stranded, 10 Pk., 3 Micron
30-9910-100	Flat Stranded, 100 Pk., 3 Micron
30-8954	Flat Stranded, 10 Pk., 15 Micron
30-8954-100	Flat Stranded, 100 Pk., 15 Micron
30-8955-100	Flat Stranded, 100 Pk., 15 Micron

RJ-12 6-Conductor (6p6c)



Part No.	Description
30-9914	Flat Stranded, 10 Pk., 3 Micron
30-9914-100	Flat Stranded, 100 Pk., 3 Micron
30-8956	Flat Stranded, 10 Pk., 15 Micron
30-8956-100	Flat Stranded, 100 Pk., 15 Micron
30-8957-100	Flat Stranded, 100 Pk., 50 Micron
30-8986	Round Stranded, 10 Pk., 15 Micron
30-8986-100	Flat Stranded, 100 Pk., 15 Micron

RJ-45 8-Conductor (8p8c)



Part No.	Description
30-9918	Flat Stranded, 10 Pk., 3 Micron
30-9918-100	Flat Stranded, 100 Pk., 3 Micron
30-8958	Flat Stranded, 10 Pk., 15 Micron
30-8958-100	Flat Stranded, 100 Pk., 15 Micron
30-8959-100	Flat Stranded, 100 Pk., 50 Micron
30-8988	Round Stranded, 10 Pk., 15 Micron
30-8988-100	Round Stranded, 100 Pk., 15 Micron



RJ-45 8-Conductor Keyed (8p8c)

Part No.	Description
30-8968	Flat Stranded, 10 Pk., 15 Micron
30-8968-100	Flat Stranded, 100 Pk., 15 Micron
30-8969-100	Flat Stranded, 100 Pk., 50 Micron

RJ-45 8-Conductor Shielded

Part No.	Description
30-8990	Flat Stranded, 10 Pk., 50 Micron
30-8990-100	Flat Stranded, 100 Pk., 50 Micron
30-8992	Round Solid, 10 Pk., 50 Micron
30-8992-100	Round Solid, 100 Pk., 50 Micron

RJ-45 8-Conductor Level 5



Part No.	Description
30-8994	Round Stranded, 10 Pk., 50 Micron
30-8994-100	Round Stranded, 100 Pk., 50 Micron

RJ-45 10-Conductor



Part No.	Description
30-9916	Flat Stranded, 10 Pk., 3 Micron
30-9916-100	Flat Stranded, 100 Pk., 3 Micron
30-8910-100	Round Stranded, 100 Pk., 3 Micron



45-5622

Colored-Coded Boots with Strain Relief for RJ45 Modular Connectors

These boots protect the connector and they can be used as color-codes for the different departments, work stations or functions of the cables.



45-5625

Black (1) Piece Boot for Round Cable
Cat. No. 45-5622

Green (1) Piece Boot for Round Cable
Cat. No. 45-5623

Red (1) Piece Boot for Round Cable
Cat. No. 45-5624



45-5627

Yellow (1) Piece Boot for Round Cable
Cat. No. 45-5625

Blue (1) Piece Boot for Round Cable
Cat. No. 45-5626



45-5722

Grey (1) Piece Boot for Round Cable
Cat. No. 45-5627

White (1) Piece Boot for Round Cable
Cat. No. 45-5611

Black (2) Piece Boot for Round Cable
Cat. No. 45-5720



45-5723

Red (2) Piece Boot for Round Cable
Cat. No. 45-5722

Orange (2) Piece Boot for Round Cable
Cat. No. 45-5723



45-5726

Yellow (2) Piece Boot for Round Cable
Cat. No. 45-5724

Green (2) Piece Boot for Round Cable
Cat. No. 45-5725

Blue (2) Piece Boot for Round Cable
Cat. No. 45-5726



45-5727

Purple (2) Piece Boot for Round Cable
Cat. No. 45-5727

White (2) Piece Boot for Round Cable
Cat. No. 45-5729



45-5729



45-5401

Datacom BNC Connectors

- Available for RG62 and RG58 A/U cable
- Crimp-on & Twist-on types

BNC (M) Twist-on for RG62 cable
Cat. No. 45-5401

BNC (M) (2) piece crimp for RG62
Cat. No. 45-5402

BNC (F) / BNC (F) Bulkhead mount
Cat. No. 45-5403

BNC (M) Twist-on for RG58 A/U
Cat. No. 45-5409

BNC (M) (2) piece crimp for RG58 A/U
Cat. No. 45-5410



45-5410



14-555-8L86

Bulk Cable

GC Electronics offers these cables for your convenience in making custom lengths.

Grey CAT5 Solid PVC CMR Rated Cable 500'
Cat. No. 14-555-8L68

Grey CAT5 Solid PVC CMR Rated Cable 1000'
Cat. No. 14-555-8L88

Grey CAT5 Stranded (for Jumper Cables) CMR Rated Cable 1000'
Cat. No. 14-554-8B88

Blue CAT5 Solid Plenum CMP Rated, 1000'
Cat. No. 14-9555-8L86

White CAT5e 350 Mhz PVC Cable CMR Rated, 1000'
Cat. No. 14-350-8L89

White CAT5e 350 Mhz Plenum Cable CMR Rated, 1000'
Cat. No. 14-9350-8L89

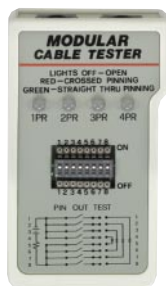


14-9555-8L86



14-350-8L89

NETWORK CABLE TESTERS



Modular Cable Tester

This portable modular tester is used for quickly testing modular cable pins continuity and pin-out configuration, such as crossed wire or straight-through. The tester is also equipped with a set of dip switches and jumpers which not only allow you to check the twisted pairs for wiring, but also allows you to change the pin-outs as you want.

Cat. No. 45-5632



Stationman Probe Speaker Probe Receiver

New locking and non-locking switch which is field adjustable. The test probe is supplied with a cone-shaped tip and a duckbill tip that is longer and flatter, permitting insertion into larger cables or cables under tension where slack cannot be obtained.

- Leads of Lineman's test set are clipped to the "ears" of the Probe, automatically energizing the Probe.
- High input impedance to permit capacitive coupling with pair carrying the test signal.
- Output impedance is low to match the impedance of the telephone handset.
- Quickly and easily locates the proper cable pair containing the tone signal.
- An audible speaker so that the speaker probe may be used with or without a lineman's test set.

Cat. No. 12-5706



LANtest (Network & Modular Cable Tester)

LANtest is a newly designed and very practical tester that can easily read the correct pin configuration cable continuity, open, short and cross-connect.

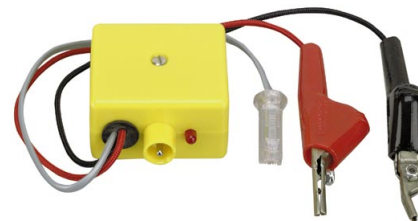
Features:

- Can test the correct pin configuration of 10Base-T, 10Base-2 thin ethernet cable, RJ45/RJ11 modular cables, 356A, TIA-568A/568B and token ring cable etc.
- Easy to verify cable continuity, open, short and miswire.
- With remote kit it can remotely test cable up to 100 ft. away either on wall plate or patch panel.
- Can test the grounding.
- Features with auto or manual scan for pin-out indicators.
- A power switch is provided for saving battery power.

CT-2200 Included are:

- 1 Master box
- 1 Remote box
- 2 BNC adapter cable, 15 cm
- 1 BNC MIM adapter 1 RJ45 modular cable, 15 cm
- 1 Deluxe carrying bag

Cat. No. 45-5767



Tone Tester Set

Features:

- 1000 Hz or 500/1000 alternative tone for tracing pairs.
- Locates broken pairs/cables in walls.
- Tone generator emits R.F. signal up to 5000 ft. Detectable by 12-5706 station man probe.
- Provides talk power on a dead pair.
- Checks for shorts or opens, using a long-life light-emitting diode, (LED).
- Continuity test.
- Tip and ring identifications.
- Line condition identification: A. Clear, B. Busy line, C. Ringing line.
- Positive line verification.
- Long battery life.
- Nylon braided tinsel test lead wire for greater wear and flexibility.
- Heavy duty nickel silver "6A" type alligator clips.
- Heavy duty boots made especially for the "6A" type alligator clips.
- Rubber grommet to prevent chafing on the test leads.

Specifications:

Integrated circuit

Dual tone capability: A. 1000 Hz continuous tone, B. 500'1000 Hz alternating tone

Power source 9 volt battery: 216 Everready, VS323 RCA, 006P import or equivalent, sold separately.

Cat. No. 12-5705



Multi-Network Cable Test Pro (Plug & Play)

The Multi-Network cable tester pro is an advanced design which simplified the test to be plug and test. It can test both 10Base-T and 10Base-2 cable within a few seconds. Just plug cable's both ends and it automatically runs all tests and Green and Red LEDs in the master unit will show you the test results of continuity, open pairs, shorted pairs, crossed pairs or reversed pairs problem. With the remote unit, you can remotely test installed cables either on wall plates or patch panels. In addition, it can also test the ground wire too.

Features:

- Plug and test, simplified the test operation.
- Can test either 10Base-T (Category 3-5) cable or 10Base-2 (coax) cable.
- Allowed loop back test or remote test.
- All test results are shown up on master unit.
- Grounding can be tested too.

Cat. No. 45-5768

TOOLS & TESTERS

Having the right tool for the job is everyone's dream. For this purpose GC Electronics offers a great selection for both the occasional user, and the professional installer. With these tools and testers your installation and trouble shooting is made much easier and faster.



12-454

Modular Crimp Tools

- 3 way tools, cut, strip & crimp
- Heavy duty steel or Dura plastic frame

Multifunctional Tool, Use on RJ11, RJ12 & RJ45
Cat. No. 12-454



12-2468

Economy Multifunctional Tool, Use on RJ11, RJ12 & RJ45
Cat. No. 12-2468



12-002

Dura Plastic Tool, Use for RJ11 & RJ12 Line & Handset Plugs
Cat. No. 12-002



12-001

Modular Crimp Tool for RJ45
Cat. No. 12-001

Modular Crimp Tool for 4c RJ11 & 6c RJ12 line cord plugs
Cat. No. 12-004

Modular Crimp Tool for 2c & 4c Handset Plugs
Cat. No. 12-005



12-5700

Punch Down Tools

- For seating wire into terminals
- Blade is reversible to insert only or insert and cut
- Impact tension is adjustable
- Compartment in handle for spare blade holding

Impact Punch Down Tool, with 110 Blade & 66 Blade
Cat. No. 12-5700



45-5628

Replacement 66 Blade
Cat. No. 12-5701

Replacement 110 Blade
Cat. No. 12-5702



45-5631

Impact Punch Down Tool (No Blade)
Cat. No. 45-5628

66 Blade for 12-5628
Cat. No. 12-5630

Economy Plastic Tool for 110 Connections
Cat. No. 45-5631

WIRE STRIPPERS



Coaxial Stripper

For Stripping RG58, RG59 and RG62 coaxial cable. Equipped with two blades allowing you to strip the insulation and dielectric in the same action.

Coaxial Stripper
Cat. No. 12-458

Replacement Blades
Cat. No. 12-468



Professional UTP Wire Stripper

This multi-purpose Tele-stripper is a versatile product for cable preparation. The tool will slit and strip twisted pair cable.

- Features:**
- Long life cutting blades for all stripping and slitting functions.
 - Strip and slit lengths may be varied to accommodate different connector requirements.
 - The user friendly tool is molded from highly visible, durable Delrin Super-Tuff.
 - A recessed cutting surface slits long runs for twisted pair cable.
 - A stripping feature with multiple nest cavities allows the removal of a wide variety of jacket materials on twisted pair cable. Disengage tension loop for thin jacketed cable.
 - A strip length gauge is molded into the side of the tool.

Cat. No. 12-532



UTP Wire Stripper

The UTP Wire Stripper takes the guesswork out of removing the cable jackets from many types of twisted pair (UTP & STP), multicore (shielded and unshielded) and fiber optic cables. This multipurpose tool will adapt itself to accept cable diameters up to 0.43" (11 mm). It is designed for long blade life and to cut into the insulation while leaving the conductors undamaged. It can be used for voice, video, audio, security and many other applications.

- Features:**
- **Safety:** the cutting blade is recessed into the housing.
 - **Self-adjusting:** will provide the user with the widest range of stripping options. The tool will adjust automatically to cut PVC, plenum rated materials and other without damaging the braids, foils or conductors.
 - **One piece design:** the tool comes complete and ready to use right out of the package.
 - **Typical applications – data:** Ethernet (10Base-T), Token Ring (IBM Cabling Types 1 & 6), AppleTalk and ISDN: Voice: Premis Distribution.

Cat. No. 12-545

5-PORT MINI HUB



The 66-9005 is a 10Base-T hub that complies with all IEEE802.3 Ethernet standards. This hub features five modular RJ-45 UTP ports for UTP wiring and one RJ-45 up-link port for hub cascading. Each UTP port is equipped with a Link/Activity LED to indicate the networking link and activity status. The Power LED indicates whether power is ON or OFF and the collision LED indicates the presence of collision. These LED's offer a great aid in diagnosing line troubles and indicate when data is being received or transmitted. The external power adapter is also included. With its compact size, the 66-9005 is ideal for small workgroup to set up a 10Base-T network.

Technical Specification

- **Standards:** IEEE 802.3 10Base-T
- **Network Connector:** (4) RJ-45 jacks + (1) pair MPR & DTE RJ-45 jack
- **Data Transfer Rate:** 10Mbps
- **Duplex:** Half
- **Cable:** 85-110Ω UTP wire, max. length of 100M (328 ft.)
- **LED's:** Power, Collision and Link/Activity (Ports 1 to 5)
- **Power Requirement:** Input: 120V AC @60Hz/18W, Output: 7.5V DC @ 1A
- **Power Consumption:** 4 Watts
- **Dimensions:** 27 x 117 x 91mm (H x W x D)
- **EMI Rating:** FCC Part 15 Class A and CE Mark

Special Functions

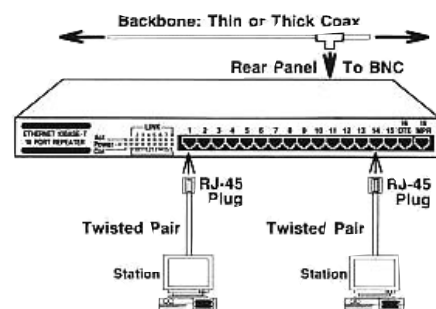
- Fragment Extension
- Auto-partition
- Auto-reconnection
- Preamble Regeneration
- Collision Detection
- Jam Pattern Generation

Cat. No. 66-9005

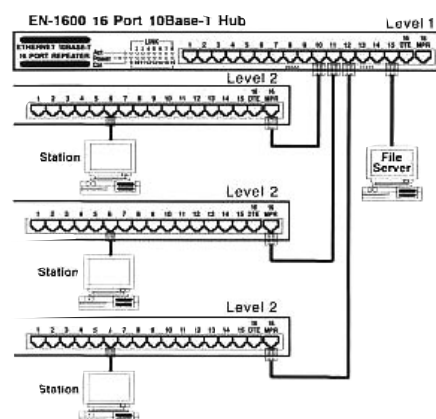
16-PORT 10BASE-T-HUB



Basic Network Interconnection



Connecting More Than Two 66-9116



66-9116 is a hub that complies with all IEEE 802.3 Ethernet standards. This hub features 16 modular RJ-45 UTP ports for UTP wiring, one RJ-45 up-link port for hub cascading, one DTE Attachment Unit Interface (AUI) port for thick Ethernet cabling and one BNC port for thin Ethernet cabling. With these features, all different Ethernet cabling systems can be connected together with a wide range of configurations. Each UTP port is equipped with link LED to indicate the network connection status. The power LED indicates whether power is on/off, the activity (ACT) LED indicates network traffic and the collision (COL) LED indicates the presence of collision. These LED's offer a great aid diagnosing line troubles and indicate when data is being received or transmitted.

Technical Specification

- **Standards:** IEEE 802.3 10Base-T-2/5/T
- **Network Connector:** (1) DB-15 AUI connector, (1) BNC connector, (15) RJ-45 jacks and 1 pair (MPR & DTE) RJ-45 jack
- **Data Transfer Rate:** 10Mbps
- **Duplex:** Half
- **Cable:** 0.4" diameter RG-11, 50Ω coaxial cable, max. length/500M (1,640'), 0.2" diameter RG-58A/U, 50Ω coaxial cable, max. length/185M (607'), 85-110 UTP wire, max. length/100M (328')
- **LED's:** Power, Collision, Activity and Link (Ports 1 to 15)
- **Power Requirement:** 90-260V AC, 50/60Hz, 0.30/0.15A
- **Dimensions:** 45 x 483 x 125mm (H x W x D)
- **EMI Rating:** FCC Part 15 Class A
- **Special Functions**
 - Fragment Extension
 - Auto-partition
 - Auto-reconnection
 - Preamble Regeneration
 - Collision Detection
 - Jam Pattern Generation

Cat. No. 66-9116

FAST ETHERNET FLUX SWITCH



FluxSwitch 10/100Mbps Auto-Negotiation Switches

The 8-port Ethernet switching hub is standard 10/100Base-TX/10/100Base-FX hubs that meet all IEEE 802.3 Ethernet standards, as well as IEEE 802.3u Fast Ethernet and switching hub specifications. This unit is rack mountable with standard 19" spacing.

Technical Specification

- **Standards:** IEEE 802.3 and IEEE 802.3u
- **Network Connector:** (1) pair (MPR & DTE) 10/100Base-TX RJ-45 jack and (7) RJ-45 jacks (You can ONLY use either MPR or DTE port)
- **Data Transfer Rate:** 10/100Base-TX port (s) 10/100Mbps Auto Negotiation
- **Transmission Method:** Store and Forward Filter/Forward
- **Rate:** 148,800 Packets/sec. per port @ 100 Mbps
14,880 Packets/sec. per port @ 10Mbps
- **Duplex:** Full/Half
- **Cable:** Category 5 for 100Base-TX port
- **LED's:** Hub Power, Link and Activity, Collision each port
- **Power Requirement:** 100-240V AC, 50/60Hz, 5.0/3.2A
- **Dimensions:** 45 x 483 x 238mm (H x W x D)
- **EMI Rating:** FCC Part 15 Class A and CE Mark

Special Functions

- **Ram Buffer:** 2MB per 2-port
- **MAC Address:** 8K with self-learning mechanism

Cat. No. 66-9112

ETHERNET LAN LAPTOP ADAPTER



PCMCIA Ethernet Adapter

66-9200 is the credit-card-size Ethernet adapter for PCMCIA compliant (Type II) notebook computers. It conforms to IEEE 802.3, PCMCIA release 2.1, and JEIDA 4.x standards. The 16KB buffer memory can provide capacity for high data transfer throughput. The software configurable design makes the installation simple and easy. This unit also supports the PCMCIA (CIS) Card Information Structure including Socket and Card Services via a direct enabler program. A diagnostic program to verify both card and cable connection is available. By using (SMT) Surface Mount Technology the device has very low power consumption with reliable performance. Equipped with the auto-sensing feature, 66-9200 can provide the (PnP) Plug and Play connection to either 10Base-T via RJ-45 port or thin Ethernet via BNC port.

Technical Specification

- **PC Supported:** PCMCIA Type II slot notebook computer
- **Standards:** IEEE 802.3, PCMCIA release 2.1, JEIDA 4.x
- **Network Connector:** Shielded RJ-45 jack, BNC connector
- **LAN Controller:** Tamarack TC3299N Ethernet PCMCIA Controller
- **Data Transfer Rate:** 10Mbps
- **Duplex:** Half
- **Cable:** CAT3/CAT5. max. length 100M (328 ft.), RG-58A/U Coaxial Cable
- **LED's:** Link and Activity
- **Power Requirement:** from notebook
- **Dimensions:** 5 x 54 x 86mm (H x W x D)
- **EMI Rating:** FCC Part 15 Class A and CE Mark

Special Functions

- Credit-card-size with media coupler
- Plug and Play (PnP) into Type II PCMCIA slot
- Switch-less and software configurable design for easy installation
- 16KB buffer memory for high speed data transfer rate

Cat. No. 66-9200

ETHERNET LAN CARDS



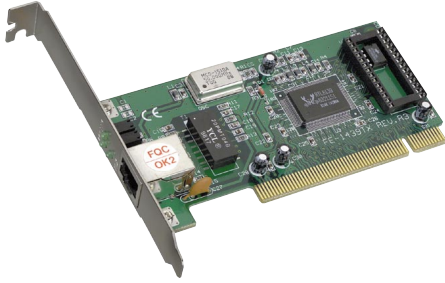
16-Bit ISA Ethernet Card

This 16-bit ISA Ethernet LAN card is fully compliant with IEEE 802.3 Ethernet standard. This Plug and Play (PnP) function and full duplex mode, makes this the most advanced Novell NE-2000 compatible LAN adapter designed ever. The 66-9110 is perfect for both server and diskless workstation configurations. LED indicators are available media types: 10Base-T and 10Base-2 are provided for the best cable connection flexibility in the Ethernet environment.

Technical Specification

- **PC Supported:** 16-Bit ISA bus computer
- **Standards:** IEEE 802.3 Ethernet 10Base-T/10Base-2
- **Network Connector:** Unshielded RJ-45 jack and coaxial BNC (Use connector one at a time)
- **LAN Controller:** Realtek RTL8019AS Single-Chip Fast Ethernet Controller
- **Data Transfer Rate:** 10Mbps
- **Duplex:** Full/Half
- **Cable:** CAT3 or CAT5 unshielded twisted-pair (RJ-45)/0.2 inch diameter, RG-58A/U ohm coaxial cable (BNC)
- **Maximum Wire Length:** UTP 100m (328 ft.), Coaxial 185m (607 ft.)
- **LED's:** Link, & ACT LED's on the bracket
- **Power Requirement:** 2.0A@+5V
- **PCB Dimensions:** 61 x 159mm (H x L)
- **EMI Rating:** FCC Part 15 Class A and CE Mark

Cat. No. 66-9110



32-Bit PCI Fast Ethernet Card

This is an affordable and high performance 32-bit 10/100Mbps Fast Ethernet adapter for networks demanding high bandwidth and flexibility. It is fully compliant with PCI Revision 2.x, IEEE 802.3 100Base-TX and 10Base-T standards. 66-9010 features N-Way auto-negotiation for automatic speed selection of 10Mbps or 100Mbps in either half or full duplex mode. This card uses the Bus-Mastering DMA approach to optimize throughput while maintaining low CPU utilization. Diagnostic LED's are easily visible for maintenance purpose.

Technical Specification

- **PC Supported:** 32-Bit PCI bus master computer
- **Standards:** IEEE 802.3u 100Base-TX
- **Network Connector:** Shielded RJ-45 jack
- **LAN Controller:** Realtek RTL8139 Single-Chip Fast Ethernet Controller
- **Data Transfer Rate:** 10/100Mbps N-Way auto-negotiation
- **Duplex:** Full/Half selectable
- **UTP Cable:** CAT5, max. length 100m (328 ft.)
- **LED's:** Link, ACT and FDX LED's on the Bracket
- **Power Requirement:** 2.0A@+5V
- **PCB Dimensions:** 61 x 123mm (H x L)
- **EMI Rating:** FCC Part 15 Class A and CE Mark

Cat. No. 66-9010

ETHERNET FIBER OPTIC CONVERTER



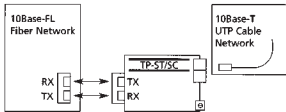
2 SC Type & 2 RJ45 Connectors

Converts multi-mode fiber to UTP in 10-Base-T environment.

Features

- **Data Transfer Rate:** 10 Mbps in half duplex, 20 Mbps in full duplex
- **LED Indicators For:** Fiber Link, Activity, Power, TP Link and TP Activity
- **Cable Run Lengths:** Multi-mode fiber up to 2 KM (790') CAT5 copper up to 90 M (395')
- **Connectors:** (2) SC Multi-mode fiber connectors, (2) RJ45 for UTP connection

Cat. No. 66-8255



2 ST Type & 2 RJ45 Connectors

Converts multi-mode fiber to UTP in 10-Base-T environment.

Features

- **Data Transfer Rate:** 10 Mbps in half duplex, 20 Mbps in full duplex
- **LED Indicators For:** Fiber Link, Activity, Power, TP Link and TP Activity
- **Cable Run Lengths:** Multi-mode fiber up to 2 KM (790') CAT5 copper up to 90 M (395')
- **Connectors:** (2) SC Multi-mode fiber connectors, (2) RJ45 for UTP connection

Cat. No. 66-8250

GLOSSARY

APPLETALK

Apple's local area network architecture introduced in 1985. It supports Apple's proprietary LocalTalk access method as well as Ethernet and Token Ring.

ATM

(Asynchronous Transfer Mode) A high-speed-cell-switching network technology for LANs and WANs that handles data and realtime voice and video.

BACKBONE

In communications, the part of a network that handles the major traffic. It often employs the highest-speed transmission paths in the network and may also run the longest distance. Smaller networks are attached to the backbone.

BI-DIRECTIONAL

The ability to move, transfer or transmit in both directions.

BREAKOUT BOX

A device inserted into a multiple-line cable for testing purposes that provides an external connecting point to each wire.

CGA

(Color Graphics Adapter) An IBM video display standard that provided low-resolution text and graphics. It was the first graphics standard for the IBM PC and has been superseded by EGA and VGA.

CROSSTALK

In communications, interference from an adjacent channel.

DCE

(Data Circuit-terminating Equipment) A device that establishes, maintains and terminates a session on a network. It may also convert signals for transmission. It is typically the modem.

DTE

(Data Terminating Equipment) A communications device that is the source or destination of signals on a network. It is typically a terminal or computer.

EGA

(Enhanced Graphics Adapter) An IBM video display standard that provides medium-resolution text and graphics

EMI

(Electro Magnetic Interference) Electromagnetic waves that emanate from an electrical device. It often refers to both low-frequency waves from electromechanical devices and high-frequency waves (RFI) from chips and other electronic devices.

ETHERNET

A local area network (LAN) developed by Xerox, Digital and Intel. It is the most widely used LAN access method. Twisted pair Ethernet is the most economical wiring to be used, often taking advantage of installed telephone wires.

FIBER OPTIC

Communications systems that use optical fibers for transmission.

GAME PORT

An I/O connector used to attach a joy stick. It is typically a 15-pin socket on the back of a PC. (See serial port.)

GENDER CHANGER

A coupler that reverses the gender of one of the connectors in order that two male connectors or two female connectors can be joined together.

GPIB

(General Purpose Interface Bus) An IEEE 488 standard parallel used for attaching sensors and programmable instruments to a computer. It uses a 24-pin connector. HP's version is the HP-IB.

HOME RUN

A single wire that begins at a central distribution point (hub, PBX, etc.) and runs to its destination (workstation, telephone, etc.) without connecting to anything else.

HUB

A central connecting device in a network that joins communication lines together in a star configuration. Hubs are required in twisted pair Ethernet (10 Base T) and Token Ring networks.

I/O

(Input/Output) Transferring data between the CPU and a peripheral device. Every transfer is an output from one device and an input into another.

IDE CONTROLLER

The term generally refers to an IDE host adapter, which is the plug-in card used to attach IDE drives. The card very often includes floppy disk control as well as serial and parallel ports.

IEEE 1284

An IEEE standard for an enhanced parallel port that is compatible with the Centronics parallel port commonly used on PCs. It also allows multiple devices to be daisy chained from one port. A higher-speed ECP mode (Enhanced Capabilities Port), originally developed by Microsoft and HP, provides speeds up to 2Mbyte/sec in each direction. The standard also defines a specific type of cable that must be used.

JEWEL BOX

A plastic container used to package an audio CD.

LAN

(Local Area Network) A communications network that serves users within a confined geographical area. It is made up of servers, workstations, a network operating system and a communications link.

LAPLINK

A PC file transfer program from Traveling Software, Inc., that transfers data between laptops and desktop computers.

MIDI

(Musical Instrument Digital Interface) A standard protocol for the interchange of musical information between musical instruments, synthesizers and computers.

MOTHERBOARD

The main printed circuit board in an electronic device, which contains sockets that accept additional boards.

MOV

(Metal Oxide Varistor) A discrete electronic component used in surge suppressors that diverts excessive voltage to the ground and/or neutral lines.

MULTIMEDIA

Disseminating information in more than one form. It includes the use of text, audio, graphics, animated graphics and full-motion video.

NULL MODEM CABLE

An RS-232 cable used to connect two personal computers in close proximity. It connects to both serial ports and crosses the sending wire on one end to the receiving wire on the other.

PLUG and PLAY

The ability to add a new component and have it work without having to perform any technical analysis or procedure. (Plug and Play) Also abbreviated PnP.

POWERBOOK

A family of Macintosh portable computers from Apple that include a trackball centered in a wrist rest.

RFI

(Radio Frequency Interference) High-frequency electromagnetic waves that emanate from electronic devices such as chips.

RGB monitor

A video display screen that requires separate red, green and blue signals from the computer.

RS-232

A TIA/EIA standard for serial transmission between computers and peripheral devices (modem, mouse, etc.). It uses a 25-pin DB-25 or 9 pin DB-9 connector. Its normal cable limitation of 50 feet can be extended to several hundred feet with high-quality cable.

RS-6000

(RISC System/6000) IBM family of RISC-based workstations introduced in 1990. It comes in workstation (POWERstation) and server (POWERserver) models.

SCSI

(Small Computer System Interface) Pronounced "scuzzy". SCSI is a hardware interface that allows for the connection of up to seven peripheral devices.

SERIAL

One after the other.

SERIAL INTERFACE

A data channel that transfers digital data in a serial fashion: one bit after the other.

SERIAL PORT

A socket on a computer used to connect a modem, mouse, scanner or other serial interface device to the computer.

SPIKE

Also called a transient, a spike is a burst of extra voltage in a power line that lasts only a fraction of a second.

STAR NETWORK

A communications network in which all terminals are connected to a central computer or central hub.

SUPER VGA

See VGA.

TERMINATOR

A hardware component that is connected to the last peripheral device in a series or the last node in a network.

TOKEN RING NETWORK

A LAN access method that uses the token passing technology in a physical ring. Each station in the network passes the token on to the station next to it.

VGA

(Video Graphics Array) An IBM video display standard that originated with its PS/2 models. VGA has become the minimum standard for PC display.

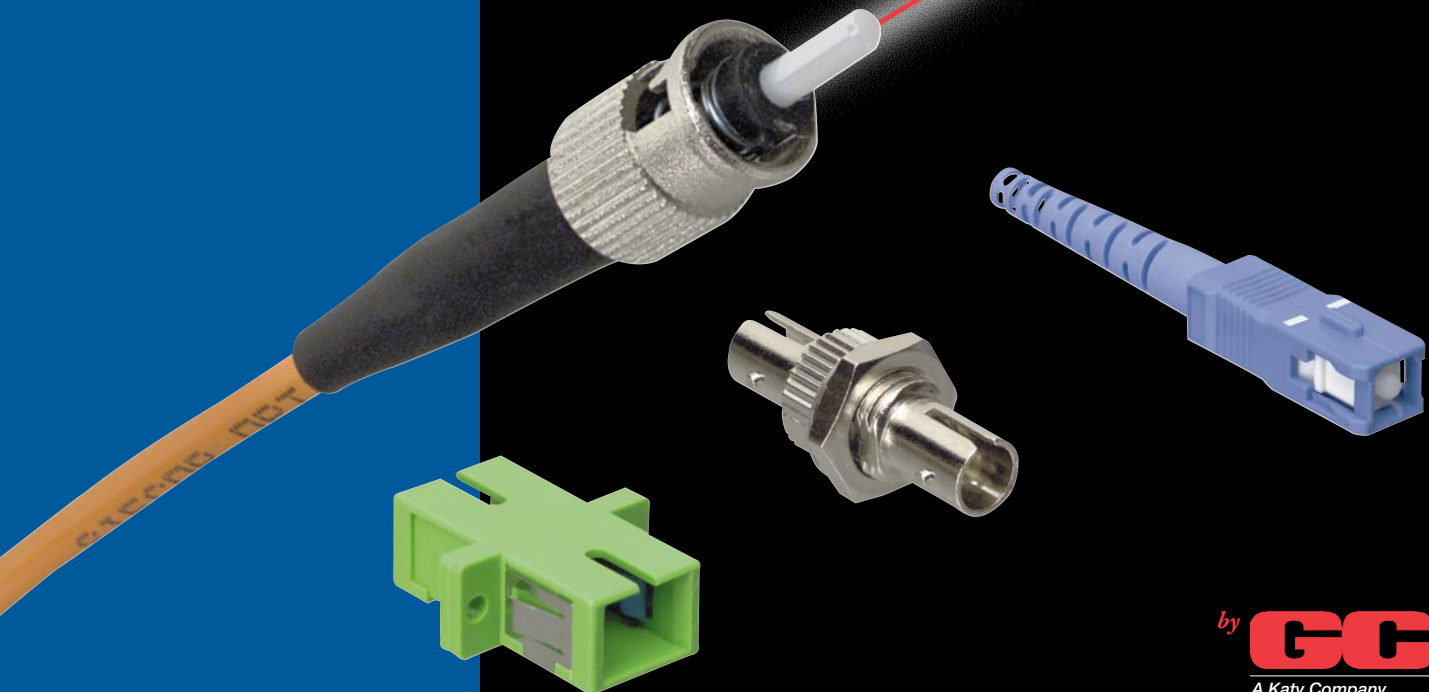
10BaseT

An Ethernet standard that uses twisted wire pairs (telephone wire). All stations connect in a star.

GCTM **ELECTRONICS**

A Katy Company

FIBER OPTIC



by **GC**TM **ELECTRONICS**
A Katy Company

FIBER OPTICS – OPPORTUNITY KNOCKING

The question being asked frequently: “Will Fiber optic cable replace copper cable?”

Not in the near future, for both transmission systems offer advantages: Copper has advantages in cost and ease of use and fiber optics in data handling capability.

If data handling were the only requirement, fiber optics would win hands down. Fiber optics can provide up to 9 times more data capacity or bandwidth that copper cable.

For the near future, the benefits and capabilities of both fiber and copper transmission systems will result in a hybrid copper fiber world. With fiber optics knocking at the front door, it will be a great advantage to understand and offer both fiber and copper solutions.

What are the basic difference in the two systems:

- Copper cabling uses electricity to transmit signals of both analog and digital data.
- Fiber optics uses digital pulses of light to transmit data.

The same result? Not quite. Copper inherently has greater signal loss at higher frequencies resulting in minimal bandwidth or data communication capacity. Fiber can carry very high frequencies with minimal loss offering much greater bandwidth. When the first Trans-Atlantic fiber optic telephone cable was installed in the late 1980’s, it carried approximately 38,000 simultaneous voice conversations. In contrast, the best Trans-Atlantic copper system carried only 4,200 conversations – 90 percent less than fiber!

What does fiber optics mean to you and the growth of your business? Fiber optics will open the potential to increase your customer base in specific areas and in general areas beginning to utilize fiber optics.

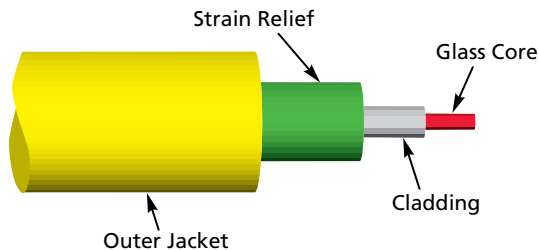
Specific Customer Base

- 3400 CATV systems. Many purchase locally.
- Installers and services of LAN systems (Local Area Network).
- Universities and trade schools who offer fiber optic courses and training.
- Hospitals and medical facilities.

General Customer Base

A significant number of small to medium size corporations will or have begun the transition to high speed data transmission via LAN and WAN (Wide Area Networks). Only fiber optics can support the speed of data transmission that is necessary.

CONSTRUCTION OF A FIBER OPTIC CABLE



- Glass core carries the light
- Cladding surrounds the core and reflects the light
- Strain relief – kevlar fibers for strength
- Outer jacket

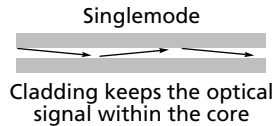
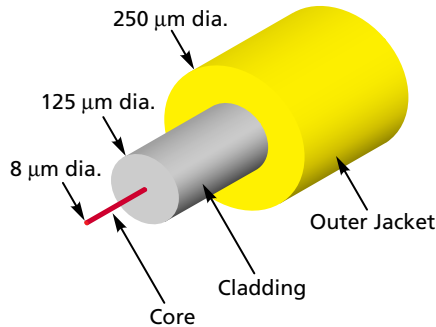
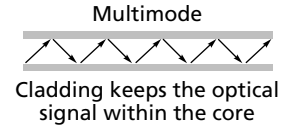
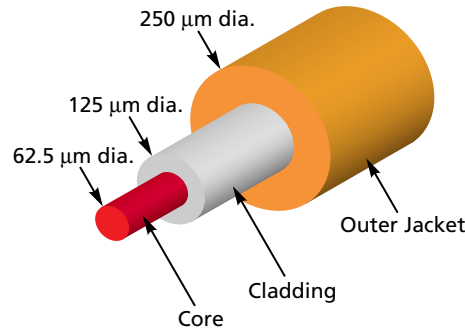
Cable Types

- **Simplex** cables, a single fiber core allows only one-way data communication.
- **Duplex** cables, contain two fiber cores allows two-way data communication.
- **Multifiber** cables, contain more than two fibers. The fibers are in duplex pairs allowing two-way data transmission. A 30 fiber cable contains 15 duplex pairs.

METHODS OF TRANSMISSION

Multimode

- Favored in LAN systems.
- Large diameter fiber core, 62.5 micron core typical.
- Short distance applications, having a distance limitation of 2000m (6,560 ft.).
- Is the most common for backbones within buildings and campus environments.
- Generally utilizes a light-emitting diode (LED) light source.
- Cable color – orange.



Singlemode

- Favored in Telco and CATV applications.
- Small diameter fiber core, 8 micron core is typical.
- Long distance applications may be used for distances up to 3000 m (9,840 ft.).
- Normally uses a laser-light source.
- Cable color – yellow.

Optic Fiber . . . Smaller Than A Human Hair



FIBER OPTICS CONNECTORS AND SPLICES

Connector Types

Multimode

SC: Push/pull mechanics. Square plastic body latches by pushing into place. Most popular multimode type. Color – beige.

ST: Bayonet style, twist to latch in place. Round body early design by AT&T. Color – beige.

Singlemode

SC: Differs from SC multimode in color and endface geometry. Most popular singlemode type.

FC: Screw on early type. Difficult to attach and remove.

Note: Single mode connectors differ from similar multimode types in that the angle of the contact endface geometry varies.

The types are:

- Physical Contact (PC), Color – blue.
- Ultra Physical Contact (UPC), Color – blue.
- Angled Physical Contact (APC), Color – green.

Splices

Two basic types are in wide use.

1. Mechanical. Mechanical splices attach the two cable ends using a clamp and/or epoxy.
2. Fusion. Melts the two fiber ends together.

MULTIMODE PATCHCORDS

Preferred in Datacom Applications

Simplex

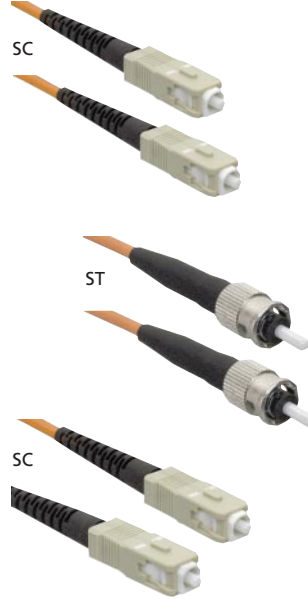


- SC/MM to SC/MM, 1 Meter
Cat. No. 45-6100
- SC/MM to SC/MM, 3 Meter
Cat. No. 45-6101
- SC/MM to SC/MM, 5 Meter
Cat. No. 45-6102
- SC/MM to SC/MM, 10 Meter
Cat. No. 45-6103

- ST/MM to ST/MM, 1 Meter
Cat. No. 45-6110
- ST/MM to ST/MM, 3 Meter
Cat. No. 45-6111
- ST/MM to ST/MM, 5 Meter
Cat. No. 45-6112
- ST/MM to ST/MM, 10 Meter
Cat. No. 45-6113

- ST/MM to SC/MM, 1 Meter
Cat. No. 45-6117
- ST/MM to SC/MM, 3 Meter
Cat. No. 45-6118

Duplex



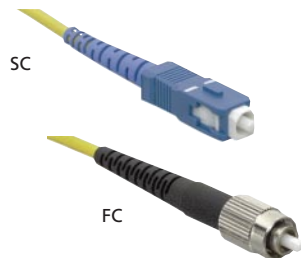
- SC/MM to SC/MM, 1 Meter
Cat. No. 45-6120
- SC/MM to SC/MM, 3 Meter
Cat. No. 45-6121
- SC/MM to SC/MM, 5 Meter
Cat. No. 45-6122
- SC/MM to SC/MM, 10 Meter
Cat. No. 45-6123

- ST/MM to ST/MM, 1 Meter
Cat. No. 45-6126
- ST/MM to ST/MM, 3 Meter
Cat. No. 45-6127
- ST/MM to ST/MM, 5 Meter
Cat. No. 45-6128
- ST/MM to ST/MM, 10 Meter
Cat. No. 45-6129

- ST/MM to SC/MM, 1 Meter
Cat. No. 45-6135
- ST/MM to SC/MM, 3 Meter
Cat. No. 45-6136

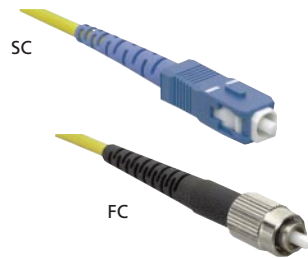
SINGLEMODE PHYSICAL CONTACT PATCHCORDS

Preferred in Telecom Applications



- SC/PC to SC/PC, 3mm Fiber, 3 Meter
Cat. No. 45-6140
- SC/PC to SC/PC, 3mm Fiber, 5 Meter
Cat. No. 45-6141

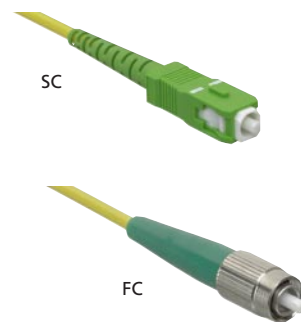
- FC/PC to FC/PC, 3mm Fiber, 3 Meter
Cat. No. 45-6145
- FC/PC to FC/PC, 3mm Fiber, 5 Meter
Cat. No. 45-6146



- SC/PC to FC/PC, 3mm Fiber, 3 Meter
Cat. No. 45-6150
- SC/PC to FC/PC, 3mm Fiber, 5 Meter
Cat. No. 45-6151

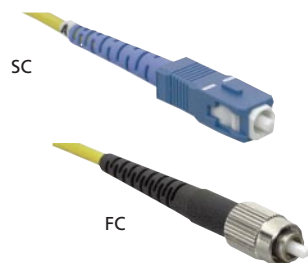
SINGLEMODE ANGLED PHYSICAL CONTACT PATCHCORDS

Preferred in Telecom Applications



- SC/APC to SC/APC, 3mm Fiber, 3 Meter
Cat. No. 45-6160
- SC/APC to SC/APC, 3mm Fiber, 5 Meter
Cat. No. 45-6161

- FC/APC to FC/APC, 3mm Fiber, 3 Meter
Cat. No. 45-6165
- FC/APC to FC/APC, 3mm Fiber, 5 Meter
Cat. No. 45-6166



- SC/APC to FC/APC, 3mm Fiber, 3 Meter
Cat. No. 45-6167
- SC/APC to FC/APC, 3mm Fiber, 5 Meter
Cat. No. 45-6168

CONNECTORS, SC, ST, FC, AND APC TYPE



SC Multimode, Zirconia
Cat. No. 45-6170

ST Multimode, Zirconia
Cat. No. 45-6171

SC Singlemode, Zirconia
Cat. No. 45-6172

ST Singlemode, Zirconia
Cat. No. 45-6173

FC Singlemode, Zirconia
Cat. No. 45-6174

SC/APC SC 5-12 mm
Radius 8 Degree
Cat. No. 45-6175

FC/APC FC 5-12 mm
Radius 8 Degree
Cat. No. 45-6176

HEAT SHRINK SPLICE PROTECTORS



61 mm Fusion splice protectors, 1 mm pin
Cat. No. 45-6180

45 mm Fusion splice protectors, 1 mm pin
Cat. No. 45-6181

35 mm Fusion splice protectors, 1 mm pin
Cat. No. 45-6182

61 mm Fusion splice protectors, 1.5 mm pin
Cat. No. 45-6183

40 mm Fusion splice protectors, 1.5 mm pin
Cat. No. 45-6184

ATTENUATORS

Die Cast Bulkhead Doped Fiber Attenuator Dual Bandwidth



SC/PC Bulkhead Attenuator, 2dB
Cat. No. 45-6186

SC/PC Bulkhead Attenuator, 5dB
Cat. No. 45-6187R

SC/PC Bulkhead Attenuator, 10dB
Cat. No. 45-6188



FC/PC Bulkhead Attenuator, 2dB
Cat. No. 45-6193

FC/PC Bulkhead Attenuator, 5dB
Cat. No. 45-6194

FC/PC Bulkhead Attenuator, 10dB
Cat. No. 45-6195



SC/APC Bulkhead Attenuator, 2dB
Cat. No. 45-6190

SC/APC Bulkhead Attenuator, 5dB
Cat. No. 45-6191

SC/APC Bulkhead Attenuator, 10dB
Cat. No. 45-6192



FC/APC Bulkhead Attenuator, 2dB
Cat. No. 45-6196

FC/APC Bulkhead Attenuator, 5dB
Cat. No. 45-6197

FC/APC Bulkhead Attenuator, 10dB
Cat. No. 45-6198

ADAPTERS



SC/PC to SC/PC
Cat. No. 45-6200

SC/APC to SC/APC
Cat. No. 45-6201

FC/PC to FC/PC
Cat. No. 45-6202

FC/APC to FC/APC
Cat. No. 45-6203



ST/MM to ST/MM
Cat. No. 45-6205

SC/MM to SC/MM
Cat. No. 45-6206



Duplex ST/MM to ST/MM
Cat. No. 45-6209

Duplex SC/MM to SC/MM
Cat. No. 45-6210

CONNECTOR CLEANER, CLETOP



Cleaner with Cassette,
400 Cleanings
Cat. No. 45-6215

Replacement Cassette
Cat. No. 45-6216



TELEPHONE

The advent of voice communications systems launched the need for low voltage systems, both in home and industry. Today, GC Electronics provides an extensive offering of telephone products and accessories that support installations ranging from the old screw terminal style to the newest voice and data systems. The products in this section support wired, cordless, and cellular phones. All GC telephone accessories meet FCC and Western Electric standards.

Most importantly, the products in this section complement the products found in the other Accessory sections of this catalog. Your selection of GC Electronics as your supplier means that you won't have to continue to search for products that you need for the rest of your low voltage needs. In the adjacent sections, you'll find most of the tools and accessories needed for data, audio, and video installations. As your one-stop source, GC offers you the connectors, jacks, cables, wall plates, and other key accessories needed for your jobs. Thanks for almost 70 years of support.

GC's wall plates have a smooth finish to match other styles of wall plates; commonly in use. Available in both standard flush design and Decora style, these wall plates are offered in a variety of colors and configurations. The jacks within this section are available in 4 conductor (RJ11), 6 conductor (RJ12), and 8 conductor (RJ45) configurations. Six conductor jacks may be used in both 4 and 6 conductor applications, since they are the same physical size. The 8 conductor jack is most generally used for commercial applications and is larger in size than either the RJ11 or RJ12 jacks.

Contents:

- Accessories
- Adapters/Couplers
- Audio Enhancement
- Multi-Line Products
- Tools/Testers
- Batteries
- Cellular
- Cordless
- Cords
- Bulk Line Cord
- Handset Coil Cords
- Modular Extension Cords
- Telephone Station Wire
- Jacks
- Flush/Wall Mount
- Surface Mount
- Modular Plugs
- UL Listed Products



MODULAR ACCESSORIES



Flush Wall Jack

Modular flush wall jack assembly allows flush-mounted connection of plug-ended modular line cords. Ideal for initial installation or conversion from existing wall receptacles.

- | | |
|---|---|
| 4-Conductor Oak
Cat. No. 30-9712 | 6-Conductor White
Cat. No. 30-9709 |
| 4-Conductor Almond
Cat. No. 30-9747 | 6-Conductor Almond
Cat. No. 30-9760-BU |
| 4-Conductor Ivory
Cat. No. 30-9707 | 8-Conductor Ivory, Keyed
Cat. No. 30-9706 |
| 4-Conductor White
Cat. No. 30-9717 | 8-Conductor White, Keyed
Cat. No. 30-9716 |
| 4-Conductor Brown
Cat. No. 30-9727 | 8-Conductor Almond, Keyed
Cat. No. 30-9761-BU |
| 6-Conductor Ivory
Cat. No. 30-9700 | |

Flush Wall Jack with Cover

Same as above with protective, spring-loaded door cover jack.

- *4-Conductor Ivory
Cat. No. 30-9701†

4 Conductor Product Complies with USOC numbers RJ11C, RJ13C, RJ1DC

6 or 8 Conductor Product Complies with USOC number RJ12C, RJ18C, RJ19C, RJ25C*



Mid-size Flush Wall Jack

Mid-size flush wall jack assembly allows connection of plug ended modular line cords. Ideal for installation where opening is larger than normal.

- White
Cat. No. 30-9726
- Ivory
Cat. No. 30-9729
- Almond
Cat. No. 30-9722-BU



Stainless Steel Wall Jack

Use when mounting wall-type telephones. Quick connect terminals ensure easy installation.

- Punch Down
Cat. No. 30-9724

Complies with USOC numbers RJ11W, RJ12W, RJ13W, RJ14W, RJ1DC

Easy installation with screw terminals

- Cat. No. 30-9723**



Quick-Mount Wall Phone Jack

- 4-Conductor Almond
Cat. No. 30-9744
- 4-Conductor Ivory
Cat. No. 30-9704
- 4-Conductor White
Cat. No. 30-9714

Complies with USOC numbers RJ11W, RJ12W, RJ13W, RJ14W, RJ1DC



Wall-Mount with Dual Side Jacks

Designed for wall-mounting phones, this unique device offers dual side jacks which accommodate hook-up of answering machine, auto dialers or extension phones.

- Ivory
Cat. No. 30-9705
- White
Cat. No. 30-9745
- Almond
Cat. No. 30-9755-BU



Combination Telephone/Coax Wall Plate

Specially designed wallplate allows hookup of both modular telephone wire and coax cable from one location.

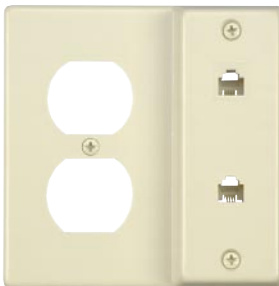
- 4-Conductor Ivory
Cat. No. 30-9732
- 4-Conductor White
Cat. No. 30-9733
- 4-Conductor Almond
Cat. No. 30-9731-BU



Combination Electrical Coax Telephone Plate

Combines for convenience the installation of an electrical, telephone, and coax wall plate into one plate.

- Ivory
Cat. No. 30-9715
- White
Cat. No. 30-9735



Combination Electrical Dual Telephone Plate

Combines for convenience the installation of an electrical and dual telephone jack into one plate.

- Ivory
Cat. No. 30-9718



Dual Flush Jack

Can be flush mounted in wall to eliminate external wires. Two modular jacks permit use of two telephones at same location or one telephone and answering machine or other related equipment. Two solderless jacks can be connected independently or in series, utilizing one or two lines.

- 4-Conductor Ivory **Cat. No. 30-9703**
- 4-Conductor White **Cat. No. 30-9713**
- 4-Conductor Almond **Cat. No. 30-9743-BU**
- 6-Conductor Ivory **Cat. No. 30-9710**
- 6-Conductor Almond **Cat. No. 30-9749-BU**
- 8-Conductor Ivory **Cat. No. 30-9708**
- 8-Conductor Almond **Cat. No. 30-9748-BU**
- 6-Conductor White **Cat. No. 30-9719**
- 8-Conductor White Keyed **Cat. No. 30-9728**

4 Conductor Product Complies with USOC numbers RJ11C, RJ13C, RJ1DC
 6 or 8 Conductor Complies with USOC numbers RJ12C, RJ18C, RJ19C, RJ25C



Dual Floor Jack

The floor jack contains duplex jacks and a center tapped mounting hole. Two modular jacks permit use of two telephones at the same location, one telephone and an answering machine or other related equipment. Spring loaded protective doors cover jacks.

- 4-Conductor Ivory **Cat. No. 30-9711-BU**

Complies with USOC numbers RJ11C, RJ12C, RJ13C, RJ1DC

Modular Surface Jack

Modular Surface Jack mounts to baseboard or wall. Screw terminals for easy installation.

- 4-Conductor Almond **Cat. No. 30-9746**
- 4-Conductor Ivory **Cat. No. 30-9604**
- 4-Conductor White **Cat. No. 30-9614**
- 4-Conductor Brown **Cat. No. 30-9624**
- 6-Conductor Ivory **Cat. No. 30-9607**
- 6-Conductor White **Cat. No. 30-9609**
- 8-Conductor Ivory **Cat. No. 30-9660**
- 8-Conductor White Keyed **Cat. No. 30-9616**

Replaces Standard Connecting Blocks,
 4-Conductor Ivory **Cat. No. 30-9603**

4 Conductor Product Complies with USOC numbers RJ11C, RJ13C, RJ1DC

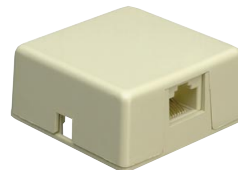
6 or 8 Conductor Product Complies with USOC numbers RJ12C, RJ18C, RJ19C, RJ25C



Dual Modular Surface Jack

Surface mounts to baseboard or wall. Dual jacks for hook-up of telephone and answering machine, auto dialer. Screw terminals for easy installation.

- 4-Conductor Ivory **Cat. No. 30-9605**
- 8-Conductor Ivory **Cat. No. 30-9665**



Voice Connecting Box

For alarm reporting devices. Equipped with 8-position, non-keyed modular jack with shorting bar. Mounts to flat surface.

- Cat. No. 30-9805**



Modular Flush Jack

Round Flush Jack with mounting bracket attached. Mounts in any standard electrical box.

- 4-Conductor **Cat. No. 30-9608**

Complies with USOC codes RJ11C, RJ13C, RJ1DC.



Round Flush Jack

Round version, smaller in size than 30-9700.

- 4-Conductor Ivory **Cat. No. 30-9702**
- 4-Conductor White **Cat. No. 30-9721**

Complies with USOC numbers RJ12C, RJ17C



Outdoor Modular Wall Plate

Weather resistant outdoor flush mount phone jack mounts in any standard electrical box. Mounting hardware included.

- Cat. No. 30-9725**



Telephone Decor Flush Jacks

These Decor Wall Plates which are available in white and ivory, with matching color mounting screws will enhance custom interiors. They are in compliance with NEMA Standard WD-1. Modular telephone plates comply with FCC part 68 requirements. Mounts in standard electrical box.

- 4-Conductor Ivory
Cat. No. 30-9767
- 4-Conductor Almond
Cat. No. 30-9764-BU

- 4-Conductor White
Cat. No. 30-9777

- 6-Conductor White
Cat. No. 30-9790

- 6-Conductor Almond
Cat. No. 30-9766-BU

- 8-Conductor White, Keyed
Cat. No. 30-9795

- 8-Conductor Almond, Keyed
Cat. No. 30-9768-BU

4 Conductor Product Complies with USOC numbers RJ11C, RJ13C, RJ1DC

6 or 8 Conductor Product Complies with USOC numbers RJ12C, RJ18C, RJ19C, RJ25C



Dual Decor Flush Jacks

Specially designated to allow the connection of two telephone lines from one location.

- 4 Conductor Ivory
Cat. No. 30-9797

- 4 Conductor White
Cat. No. 30-9798

- 4 Conductor Almond
Cat. No. 30-9791-BU

- 6-Conductor White
Cat. No. 30-9792

- 6-Conductor Almond
Cat. No. 30-9793-BU

- 8 Conductor, Keyed, White
Cat. No. 30-9796

4 Conductor Product Complies with USOC numbers RJ11C, RJ13C, RJ1DC

6 or 8 Conductor Product Complies with USOC numbers RJ12C, RJ18C, RJ19C, RJ25C



Dual Combination Decor Flush Jacks

For use with 4-conductor line cord. Specially designed to allow the connection of both telephone wire and coax cable from one location.

- Ivory
Cat. No. 30-9778

- White
Cat. No. 30-9779

- Almond
Cat. No. 30-9780-BU

4 Conductor Product Complies with USOC numbers RJ11C, RJ13C, RJ1DC

UL LISTED TELEPHONE ACCESSORIES

****These telephone products are constructed with UL 94V-O flame retardant plastic and 50 micro inches of gold plating. They comply with UL standard 1863 and article 800-51 of The National Electrical Code.**



Flush Wall Jack

Modular flush wall jack assembly allows flush-mounted connection of plug-ended modular line cords. Ideal for initial installation or conversion from existing wall receptacles.

- **4-Conductor Ivory
Cat. No. 30-9757-BU

- **4-Conductor White
Cat. No. 30-9787-BU

- 4-Conductor Almond
†Cat. No. 30-8743-BU

- 4-Conductor Ivory
†Cat. No. 30-8747-BU

- 4-Conductor White
†Cat. No. 30-8749-BU

- 6-Conductor Almond
†Cat. No. 30-8763-BU

- 6-Conductor Ivory
†Cat. No. 30-8767-BU

- 6-Conductor White
†Cat. No. 30-8769-BU

- 8-Conductor Almond
†Cat. No. 30-8783-BU

- 8-Conductor Ivory
†Cat. No. 30-8787-BU

- 8-Conductor White
†Cat. No. 30-8789-BU



Mid Size

- 4-Conductor Mid Size Almond
Cat. No. 30-8733-BU

- 4-Conductor Mid Size Ivory
Cat. No. 30-8737-BU

- 4-Conductor Mid Size White
Cat. No. 30-8739-BU

- 4-Conductor Dual Mid Size Almond
Cat. No. 30-8753-BU

- 4-Conductor Dual Mid Size Ivory
Cat. No. 30-8757-BU

- 4-Conductor Dual Mid Size White
Cat. No. 30-8759-BU

4 Conductor Product Complies with USOC numbers RJ11C, RJ13C, RJ1DC.

†UL & CSA Approved





Quick-Mount Wall Phone Jack

Use when mounting wall-type telephones. Easy-to-hook-up screw-type terminals. Heavy-duty construction.

- **4-Conductor Ivory **Cat. No. 30-9754-BU**
- **4-Conductor White **Cat. No. 30-9784-BU**
- 4-Conductor Almond **†Cat. No. 30-8703-BU**
- 4-Conductor Ivory **†Cat. No. 30-8704-BU**
- 4-Conductor White **†Cat. No. 30-8709-BU**

Complies with USOC numbers RJ11W, RJ12W, RJ13W, RJ14W, RJ1DC.



Dual Flush Jack

Can be flush mounted in wall to eliminate external wires. Two modular jacks permit use of two telephones at same location or one telephone and answering machine or other related equipment. Two solderless jacks can be connected independently or in series, utilizing one or two lines.

- **4-Conductor Ivory **Cat. No. 30-9753-BU**
- **4-Conductor White **Cat. No. 30-9783-BU**
- 4-Conductor Almond **†Cat. No. 30-8443-BU**
- 4-Conductor Ivory **†Cat. No. 30-8447-BU**
- 4-Conductor White **†Cat. No. 30-8449-BU**
- 6-Conductor Almond **†Cat. No. 30-8663-BU**
- 6-Conductor Ivory **†Cat. No. 30-8667-BU**
- 6-Conductor White **†Cat. No. 30-8669-BU**
- 8-Conductor Almond **†Cat. No. 30-8803-BU**
- 8-Conductor Ivory **†Cat. No. 30-8807-BU**
- 8-Conductor White **†Cat. No. 30-8809-BU**

4 Conductor Product Complies with USOC numbers RJ11C, RJ12C, RJ13C, RJ14C, RJ1DC.



Modular Surface Jack

Surface mounts to baseboard or wall. Screw terminals for easy installation.

- **4-Conductor White **Cat. No. 30-9786-BU**
- **4-Conductor Ivory **Cat. No. 30-9756-BU**
- 4-Conductor Almond **†Cat. No. 30-8603-BU**
- 4-Conductor Ivory **†Cat. No. 30-8607-BU**
- 4-Conductor White **†Cat. No. 30-8609-BU**
- 6-Conductor Almond **†Cat. No. 30-8623-BU**
- 6-Conductor Ivory **†Cat. No. 30-8627-BU**
- 6-Conductor White **†Cat. No. 30-8629-BU**
- 8-Conductor Almond **†Cat. No. 30-8683-BU**
- 8-Conductor Ivory **†Cat. No. 30-8687-BU**
- 8-Conductor White **†Cat. No. 30-8689-BU**
- 4-Conductor Dual Almond **†Cat. No. 30-8613-BU**
- 4-Conductor Dual Ivory **†Cat. No. 30-8617-BU**
- 4-Conductor Dual White **†Cat. No. 30-8619-BU**
- 6-Conductor Dual Almond **Cat. No. 30-8633-BU**
- 6-Conductor Dual Ivory **Cat. No. 30-8637-BU**
- 6-Conductor Dual White **Cat. No. 30-8639-BU**
- 8-Conductor Dual Almond **Cat. No. 30-8653-BU**
- 8-Conductor Dual Ivory **Cat. No. 30-8657-BU**
- 8-Conductor Dual White **Cat. No. 30-8659-BU**

4 Conductor Product Complies with USOC numbers RJ11C, RJ12C, RJ13C, RJ14C, RJ1DC.



Combination Wall Plate

Specially designed wall plate allows hookup of both modular telephone wire and coax cable from one location. Complies with FCC part 68. Complies with UL Standard 1863 and Article 800-51 of the National Electrical Code.

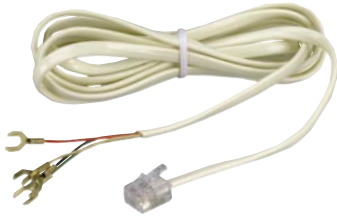
- Ivory **Cat. No. 30-9758-BU**
- White **Cat. No. 30-9759-BU**
- 4-Conductor Almond **Cat. No. 30-8043-BU**
- 4-Conductor Ivory **Cat. No. 30-8047-BU**
- 4-Conductor White **Cat. No. 30-8049-BU**
- 6-Conductor Almond **Cat. No. 30-8063-BU**
- 6-Conductor Ivory **Cat. No. 30-8067-BU**
- 6-Conductor White **Cat. No. 30-8069-BU**

Mid Size Combination Wall Plate

- 4-Conductor Mid Size Almond **Cat. No. 30-8353-BU**
- 4-Conductor Mid Size Ivory **Cat. No. 30-8357-BU**
- 4-Conductor Mid Size White **Cat. No. 30-8359-BU**
- Phone with Dual Coax
- 4-Conductor Dual Almond **Cat. No. 30-8243-BU**
- 4-Conductor Dual Ivory **Cat. No. 30-8247-BU**
- 4-Conductor Dual White **Cat. No. 30-8249-BU**



TELEPHONE EXTENSION CORDS, HANDSET/REPLACEMENT CORDS, STATION WIRE



Modular Telephone Replacement Cord

Use for converting "hard-wired" telephones to modular, or as a replacement/extension. Spade terminals one end; modular plug other end.

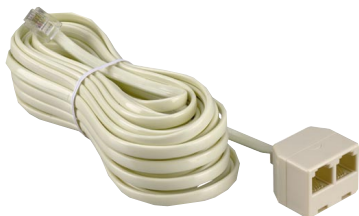
- 6 ft. Silver
Cat. No. 30-9540
- 25 ft. Silver
Cat. No. 30-9542
- 6 ft. Ivory
Cat. No. 30-9544
- 25 ft. Ivory
Cat. No. 30-9545



Modular Plug to Modular Jack Extension Cord

Extension cord with modular plug and jack on each end. Cord offers the convenience of adding 25-foot extension to existing telephone system. Modular plug at one end snaps into wall receptacle while modular jack at the other accepts line cord from existing telephone.

- 25 ft. Ivory
Cat. No. 30-9506
- 25 ft. White
Cat. No. 30-9586



Modular Plug to Twin Modular Jacks Extension Cord

The 25-foot modular telephone cord has a modular plug on one end and a modular duplex jack on the other end. The modular plug snaps into wall receptacles. The duplex modular jack accepts cords from a telephone and answering machine, or other auxiliary device, at the same time.

- 25 ft. Ivory
Cat. No. 30-9508



Modular Handset Coil Cords

Coiled cord with modular plugs at both ends. Available in 3 lengths and 9 color selections. Cords fit between handset and phone base.

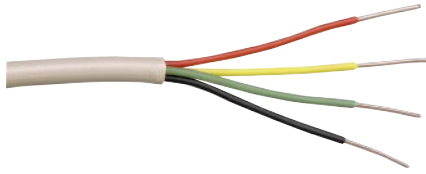
- | | | |
|---|---|---|
| 6 ft. Almond
Cat. No. 30-9565 | 12 ft. Ash
Cat. No. 30-9526 | 25 ft. Chocolate Brown
Cat. No. 30-9534 |
| 12 ft. Black
Cat. No. 30-9519 | 12 ft. Ivory
Cat. No. 30-9528 | 25 ft. Almond
Cat. No. 30-9535 |
| 12 ft. White
Cat. No. 30-9520 | 12 ft. Grey
Cat. No. 30-9541 | 25 ft. Ash
Cat. No. 30-9536 |
| 12 ft. Beige
Cat. No. 30-9521 | 25 ft. Black
Cat. No. 30-9529 | 25 ft. Ivory
Cat. No. 30-9538 |
| 12 ft. Chocolate Brown
Cat. No. 30-9524 | 25 ft. White
Cat. No. 30-9530 | 25 ft. Grey
Cat. No. 30-9551 |
| 12 ft. Almond
Cat. No. 30-9525 | 25 ft. Beige
Cat. No. 30-9531 | |



Modular Line Cord (Plug to Plug Extension Cord)

Use to extend length of cord between telephone and wall jack or as an extension cord.

- | | | | |
|--|--|--|--|
| 26 Gauge, 4-Conductor | 25 ft. Silver
Cat. No. 30-9516 | 26 Gauge, 6-Conductor | 26 Gauge, 8-Conductor |
| 5-1/4 inch Silver
Cat. No. 30-9546 | 25 ft. White
Cat. No. 30-9503 | 7 ft. Silver
Cat. No. 30-9575 | 15 ft. Silver
Cat. No. 30-9568 |
| 7 ft. Silver
Cat. No. 30-9569 | 25 ft. Black
Cat. No. 30-9507 | 15 ft. Silver
Cat. No. 30-9566 | 25 ft. Silver
Cat. No. 30-9578 |
| 7 ft. Ivory
Cat. No. 30-9559 | 25 ft. Almond
Cat. No. 30-9509 | 25 ft. Silver
Cat. No. 30-9576 | |
| 7 ft. White
Cat. No. 30-9579 | 25 ft. Ash
Cat. No. 30-9512 | 25 ft. White
Cat. No. 30-9577 | |
| 15 ft. Silver
Cat. No. 30-9515 | 50 ft. Ivory
Cat. No. 30-9549 | 25 ft. Ivory
Cat. No. 30-9567 | |
| 15 ft. Ivory
Cat. No. 30-9513 | 100 ft. Ivory
Cat. No. 30-9548 | | |
| 15 ft. White
Cat. No. 30-9502 | 100 ft. White
Cat. No. 30-9553 | | |
| 25 ft. Ivory
Cat. No. 30-9514 | | | |



22-ga. Solid Telephone Station Wire

Beige-jacketed hook-up wire with color-coded wires within.

4-Conductor

25 ft. Hank

Cat. No. 30-9902

50 ft. Hank

Cat. No. 30-9900

100 ft. Hank

Cat. No. 30-9901

500 ft. Knockout Carton

Cat. No. 30-9905

1000 ft. Knockout Carton

Cat. No. 30-9959

1000 ft. Pull-Out Box

Cat. No. 30-9953

5000 ft. Spool

Cat. No. 30-9960

UL CMX 1000 ft. Knockout Carton

Cat. No. 30-9979

6-Conductor

100 ft. Hank

Cat. No. 30-9969

500 ft. Knockout Carton

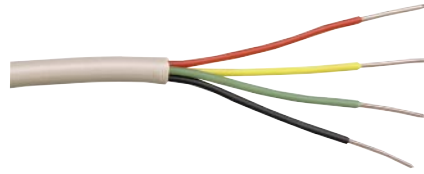
Cat. No. 30-9970

1000 ft. Knockout Carton

Cat. No. 30-9971

3000 ft. Spool

Cat. No. 30-9972



24-ga. Solid Telephone Station Wire

Beige-jacketed hook-up wire with color-coded wires within.

4-Conductor

100 ft. Hank

Cat. No. 30-9956

UL CMX 100 ft. Hank

Cat. No. 30-9903

500 ft. Knockout Carton

Cat. No. 30-9957

1000 ft. Knockout Box

Cat. No. 30-9958

1000 ft. Pull-Out Box

Cat. No. 30-9952

5000 ft. Spool

Cat. No. 30-9980

UL CMX 1000 ft. Knockout Carton

Cat. No. 30-9978

6-Conductor

1000 ft. Knockout Carton

Cat. No. 30-9976

4000 ft. Spool

Cat. No. 30-9982



26-ga. Stranded Flat Modular Line Cord

Jacketed line cord with color coded wires. Use with telephone modular plugs.

4-Conductor

50 ft. Hank Silver

Cat. No. 30-9907

50 ft. Hank Ivory

Cat. No. 30-9920

100 ft. Hank Silver

Cat. No. 30-9908

100 ft. Hank Ivory

Cat. No. 30-9922

500 ft. Knockout Box

Silver

Cat. No. 30-9906

500 ft. Knockout Box

Ivory

Cat. No. 30-9924

1000 ft. Spool Silver

Cat. No. 30-9962

1000 ft. Spool Ivory

Cat. No. 30-9963

5000 ft. Spool Silver

Cat. No. 30-9961

5000 ft. Spool Ivory

Cat. No. 30-9964

6-Conductor

100 ft. Hank Silver

Cat. No. 30-9932

100 ft. Hank Ivory

Cat. No. 30-9933

500 ft. Knockout

Carton Silver

Cat. No. 30-9934

1000 ft. Spool Silver

Cat. No. 30-9965

1000 ft. Spool Ivory

Cat. No. 30-9966

4000 ft. Spool Silver

Cat. No. 30-9967

4000 ft. Spool Ivory

Cat. No. 30-9968

8-Conductor

500 ft. Spool Silver

Cat. No. 30-9945

1000 ft. Spool Silver

Cat. No. 30-9940

3000 ft. Spool Silver

Cat. No. 30-9988



Wire Nail Clips for Telephone Wire

Pkg. of 20

Cat. No. 30-9944

Pkg. of 100

Cat. No. 30-9944-100



Adhesive Wire Clips for Telephone Wire

Pkg. of 12

Cat. No. 30-9947

Pkg. of 100

Cat. No. 30-9947-100



Telephone Tap Connector



For tapping into existing wires without interruption UB connector 22-26 Awg.

Pkg. of 10

Cat. No. 30-8933

Pkg. of 100

Cat. No. 30-8933-100



Telephone Butt Splice

Connects 2 or 3 wires 19-26 Awg. for general splicing UR connector 3 ports.

Pkg. of 10

Cat. No. 30-8931

Pkg. of 100

Cat. No. 30-8931-100



Telephone Butt Splice

Connects 2 wires 22-26 Awg. for bundle splicing UY connector 2 ports.

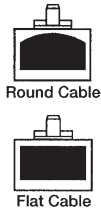
Pkg. of 10

Cat. No. 30-8932

Pkg. of 100

Cat. No. 30-8932-100

Cable Entry View



Modular Plugs

RJ-11 4-Conductor (4p4c) - (Handset)

Part No.	Description
30-9912-100	Flat Stranded, 100 Pk., 3 Micron
30-9912	Flat Stranded, 10 Pk., 3 Micron
30-8964-100	Round Stranded, 100 Pk., 15 Micron
30-8964	Round Stranded, 10 Pk., 15 Micron

RJ-11 4-Conductor (6p4c)

Part No.	Description
30-9910	Flat Stranded, 10 Pk., 3 Micron
30-9910-100	Flat Stranded, 100 Pk., 3 Micron
30-8954	Flat Stranded, 10 Pk., 15 Micron
30-8954-100	Flat Stranded, 100 Pk., 15 Micron
30-8955-100	Flat Stranded, 100 Pk., 15 Micron

RJ-12 6-Conductor (6p6c)

Part No.	Description
30-9914	Flat Stranded, 10 Pk., 3 Micron
30-9914-100	Flat Stranded, 100 Pk., 3 Micron
30-8956	Flat Stranded, 10 Pk., 15 Micron
30-8956-100	Flat Stranded, 100 Pk., 15 Micron
30-8957-100	Flat Stranded, 100 Pk., 50 Micron
30-8986	Round Stranded, 10 Pk., 15 Micron
30-8986-100	Round Stranded, 100 Pk., 15 Micron

RJ-45 8-Conductor (8p8c)

Part No.	Description
30-9918	Flat Stranded, 10 Pk., 3 Micron
30-9918-100	Flat Stranded, 100 Pk., 3 Micron
30-8958	Flat Stranded, 10 Pk., 15 Micron
30-8958-100	Flat Stranded, 100 Pk., 15 Micron
30-8959-100	Flat Stranded, 100 Pk., 50 Micron
30-8988	Round Stranded, 10 Pk., 15 Micron
30-8988-100	Round Stranded, 100 Pk., 15 Micron

RJ-45 8-Conductor Keyed (8p8c)

Part No.	Description
30-8968	Flat Stranded, 10 Pk., 15 Micron
30-8968-100	Flat Stranded, 100 Pk., 15 Micron
30-8969-100	Flat Stranded, 100 Pk., 50 Micron

RJ-45 8-Conductor Shielded

Part No.	Description
30-8990	Flat Stranded, 10 Pk., 50 Micron
30-8990-100	Flat Stranded, 100 Pk., 50 Micron
30-8992	Round Solid, 10 Pk., 50 Micron
30-8992-100	Round Solid, 100 Pk., 50 Micron

RJ-45 8-Conductor Level 5

Part No.	Description
30-8994	Round Stranded, 10 Pk., 50 Micron
30-8994-100	Round Stranded, 100 Pk., 50 Micron

RJ-45 10-Conductor

Part No.	Description
30-9916	Flat Stranded, 10 Pk., 3 Micron
30-9916-100	Flat Stranded, 100 Pk., 3 Micron
30-8910-100	Round Stranded, 100 Pk., 3 Micron

30-8964



30-9910



30-8986



30-9918



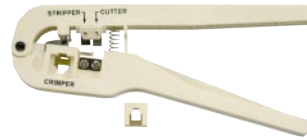
30-8968



30-8994



30-9916



Modular Crimp Tool 4-Conductor

Makes it easy to install 4-conductor modular plugs on modular line cord. Also crimps 4-conductor handset plugs. Has built-in wire stripper and cutter.

Cat. No. 30-9951



Telco® Crimping Tool

These tools do a fast clean cut strip and crimp of Telco/Telephone wire for application of modular connectors, and are available in three sizes for your crimping needs.

8-contact Professional

Cat. No. 12-001

4 & 6-contact Professional

Cat. No. 12-004

Modular Hand Set 4-contact

Cat. No. 12-005



Dura Crimp

The Duracrimp modular crimp tool will crimp 4 & 6 contact modular plugs as well as 4 position handset plugs. This tool is lightweight, durable, and accurate. The built in blade provides a clean strip of the cable.

Cat. No. 12-002



Modular Crimp Tool 10-Conductor

Makes it easy to install 10-conductor modular plugs.

Cat. No. 30-9955



Dual Cut and Crimp Tool

Cuts and crimps 2c, 4c, 6c and 8c line cord plugs.

Cat. No. 12-2468



Tele-Check Modular Line Tester

Analyzes modular phone line problems. Tester inserts into modular jack or in receptacle which holds line wire in network interface panel.

Provides visual indication of the type and location of the phone line problem.

Eliminates costly unneeded telephone service calls.

Cat. No. 30-9451

ADAPTERS/COUPLERS



Surface Jack Modular Converter

Converts standard or "hardwired" installations to modular. Screw terminals for easy installation. Modular cover fastens to existing connecting block.

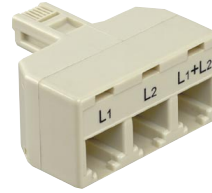
Ivory

Cat. No. 30-9600

White

Cat. No. 30-9601

Complies with USOC number RJ11C



Two-Line Triplex Adapter

Converts a single jack with 2-line service to a line 1 jack, line 2 jack and a combo line 1-2 jack.

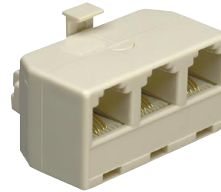
Cat. No. 30-9658



Standard to Modular Adapter

Adapts modular plug ends to standard (4-Prong) system.

Cat. No. 30-9650



Modular Three-Line Triplex Adapter

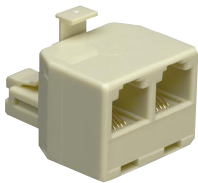
This adapter allows multiple equipment to share the same telephone line. It does provide additional dial tones or split a 3 line system into line 1, line 2 and line 3, if your home or office is wired with a minimum 6 conductor installation wire. Works with all brands.

Ivory

Cat. No. 30-9663

White

Cat. No. 30-9664



Modular T Adapter

"T" adapter enables two modular plugs to be used in a single modular jack.

4-Conductor Ivory

Cat. No. 30-9654

4-Conductor White

Cat. No. 30-9615

6-Conductor Ivory

Cat. No. 30-9647

6-Conductor White

Cat. No. 30-9646



2-Line Y-Coupler

Couples two single-line jacks into one 2-line jack. For use with 2-line devices, with modular plug.

12 Ft. Ivory

Cat. No. 30-9505



8-Conductor Duplex Adapter

Converts one 8-conductor jack into two 8-conductor jacks for telephone or data interfaces.

8-Conductor Ivory

Cat. No. 30-9649

8-Conductor White

Cat. No. 30-9648



Modular Triplex Adapter

Allows three modular plugs to be used in a single modular jack.

Cat. No. 30-9656



Two-Line Adapter

Converts a two-line system into two single line outlets.

Cat. No. 30-9655

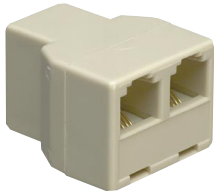


Modular In-line Couplers

Allows two modular line cords to be connected together to increase length.

Configuration	Description	Part No.
Reverse	4-Conductor Ivory	30-9678
Reverse	4-Conductor White	30-9618
Reverse	6-Conductor Ivory	30-9686
Reverse	6-Conductor White	30-9687
Reverse	8-Conductor Ivory	30-9688
Reverse	8-Conductor White	30-9689
Straight Thru	6-Conductor Ivory	30-9682
Straight Thru	6-Conductor White	30-9683
Straight Thru	8-Conductor Ivory	30-9684
Straight Thru	8-Conductor White	30-9685

Straight thru wiring for data communication.
Reverse wiring for voice communication.



**Three Way Coupler
4-Conductor**

Joins three modular cords together. One end has single modular jack, other end has dual modular 4-conductor jacks.

Ivory
Cat. No. 30-9679
White
Cat. No. 30-9669



Telephone Noise Filter

EMI/RFI filter for the telephone. Reduces static noise on corded telephones.

Cat. No. 30-9653



**Standard Telephone
Pick-Up**

For recording or amplifying both sides of a telephone conversation. No wiring or installation; just connect pickup to phone with suction cup and plug cord into recorder or amplifier. Miniature (3.5mm) phone plug fits majority of recorders.

Cat. No. 30-6000



The Untangler®

No more tangled cords. Fits all standard telephones. Install in seconds. Attach either to the base or the handset.

Cat. No. 30-9311



Twistfree

Prevents handset cords from becoming twisted and tangled by allowing the handset to rotate freely. Compatible with all modular handset cords. Swivel rotary action spins the cord around to its original position, without decreasing sound quality.

Clear
Cat. No. 30-9310
Almond
Cat. No. 30-9312
White
Cat. No. 30-9313



Outdoor Telephone Bell

The outdoor telephone bell is a loud mechanical bell. Weather resistant molded housing for use indoors or outdoors, ideal for factory, farm, porch or garage or in any noisy environment. This telephone bell is line powered and uses a modular jack for simple installation. FCC registered.

Cat. No. 30-9835

MULTI-LINE PRODUCTS



**Wire Junction
With or Without Modular
Plug With Snap-On Covers**

Enables you to add outlets for telephone extensions by running one, two, three or four telephone wires to different parts of your house. The modular plug will connect to an existing modular outlet.

With Modular Plug
Cat. No. 30-9800
Without Modular Plug
Cat. No. 30-9801



**5-Outlet Modular
4 Conductor Junction
Box With Cord**

Permits up to five telephone related devices to be used from single modular jack.

6 ft. Ivory
Cat. No. 30-9802



**3-Line Multi-Line-to-Modular
Jack Adapter**

Allows a single-line modular telephone to be connected to an existing 50-pin connector. With this adapter, installers are able to convert multi-line service, multi button-equipped telephone stations in minutes.

Cat. No. 30-9812



5-Outlet Modular Tap

Allows connection of answering machines, dialing equipment, extension phones, modems and other auxiliary equipment to key telephone systems. Also allows conversion of existing multi-line connectors to accept telephone equipment with modular plug ended cords. 5 modular outlets are linked to 5 separate outside lines.

Cat. No. 30-9804

REPLACEMENT TELEPHONE BATTERIES



Cordless Telephone Battery

3 DK cells with solderless connector. 3.6V, 280 mA. For use with N.W. Bell (Excursion), Panasonic, and Uniden telephones.

Cat. No. 30-9433



Cordless Telephone Battery

3-1/2 AA cells with solder tabs. 3.6V, 270 mA. For Bell Phone, G.E., G.T.E., Midland, Pacific Bell, Sony, Uniden.

Cat. No. 30-9490



Cordless Telephone Battery

3 AA cells with solder tabs. 3.6V, 500 mA. For use with AT&T, Cobra, S.W. Bell (Freedom Phones), G.E., ITT, Midland, N.W. Bell, Panasonic and Uniden.

Cat. No. 30-9470



Cordless Telephone Battery

3-1/2 AA cells with solderless white connector (Molex 5264-02). 3.6V, 270 mA. For Cobra, Emerson.

Cat. No. 30-9495



Cordless Telephone Battery

3 AA cells with solderless connector. 3.6V 500 mA. For Cobra, Panasonic, Uniden.

Cat. No. 30-9473



Cordless Phone Battery with Universal Connection

Universal connection fits most phones using the 3-1/2 AA battery configuration. For use with Northwestern Bell, Panasonic, Uniden and others.

Cat. No. 30-9499



Cordless Telephone Battery

3 DK cells with solderless connector. 3.6V 280 mA. For N.W. Bell (Excursion), Sony.

Cat. No. 30-9483



Cordless Telephone Battery

4.0V, 500 mA. For use with Sony phones.

Cat. No. 30-9493



Cordless Telephone Battery

3-1/2 AA cells with solderless connector. 3.6V, 270 mA. For most AT&T, Pacific Bell. Refer to battery.

Cat. No. 30-9491



Cordless Telephone Battery

3.6V, 270 mA. For use with Bell phones, G.E., Pacific Bell, Sony, Uniden and others.

Cat. No. 30-9494

REPLACEMENT TELEPHONE ANTENNAS



Cordless Telephone Antenna

Antenna
Collapsed: 3"
Extended: 12-3/4"
Sections: 5
 For AT&T, Bell South, Cobra
Cat. No. 30-9402



Cordless Telephone Antenna

Antenna
Collapsed: 3-3/4"
Extended: 13-1/2"
Sections: 5
 For Southwest Bell (Freedom Phone)
Cat. No. 30-9410



Rubber Cordless Telephone Antenna

Replace metal antennas with this exact replacement flexible antenna that is much safer and more durable. Replaces AT&T, Bell South, Cobra, GTE, Extena Phone, S.W. Bell and others.
Cat. No. 30-9425

AUDIO ENHANCEMENT PRODUCTS



Telephone Amplifier

The telephone amplifier increases volume to improve communications. The need for additional volume arises often with those with hearing impairments, static on long distance calls, locations with loud background noise or when speaking to people with soft voice levels. The adjustable volume control can increase volume up to five times the original level, in the middle of the conversation, making it an effective assistive listening device. Easily installs into all modular phones. This amplifier is battery powered and is compatible with standard rotary pulse phones and most electronic touch tone phones. The 9 volt battery (not included) provides convenience as no AC outlet is required near the phone. Additional features include an on/off switch which saves battery power. If the volume of incoming calls is loud enough, the handset will still operate when the amplifier is in the off position. An LED indicates if the battery needs to be replaced.

Specifications:
Power Gain: 21 dB
Volume Control: -8 dB +21 dB
Frequency Response: 200 Hz -3 KHz
Power Supply: Standard 9 Volt Battery
Current Dissipation (Off-Hook): 1mA (Max.)
Current Dissipation (On-Hook): 22uA (Max.)
Cat. No. 30-7501



Telephone Extension Ringer

Telephone ringer easily installs with modular connections. Ideal when in a remote location such as the basement, garage, patio, laundry room to alert the individual of a phone call. The loud audible signal can be used in noisy locations or for individuals with hearing impairments. The sound can be heard for great distances. The ringer is powered by the telephone line. FCC registered.

Cat. No. 30-7520



Telephone Extension Ringer

Telephone ringer easily installs with modular connections. Ideal when in a remote location such as the basement, garage, patio, laundry room to alert the individual of a phone call. Combination strobe light/extension ringer has on/off switch but strobe light always lights with an incoming call. The loud audible signal can be used in noisy locations or for individuals with hearing impairments. The audible signal can be adjusted to a volume comfortable for the user up to 90 dB (louder than a smoke alarm). The sound can be heard for great distances and the weatherproof ringer is ideal for outdoor use. The ringer is powered by the telephone line. FCC registered.

Cat. No. 30-7521



Light Flasher

Flasher visually signals incoming calls by flashing up to a 300 watt light in place of the audible phone ring. Simply plug any house lamp into the light flasher and connect to your modular phone for quick and easy installation. Ideal for noisy rooms or where you don't want a phone ringing. Also provides assistance for individuals who have difficulty hearing the phone ring.

Cat. No. 30-7522



Strobe Flasher

In addition to the phone ringing, the bright strobe visually alerts the hearing impaired that there is an incoming call. Also provides a visual signal in noisy locations such as factories, workshops, or simply when the television, radio, or stereo are at high volumes. Easily installed to modular phones. FCC registered.

Cat. No. 30-7525



Soft Shoulder Rest

The soft shoulder rest provides a comfortable phone use and frees your hands to work at the office or home. Fastens comfortably to any handset with the adhesive tape provided. Almond color.

Cat. No. 30-9421



Telephone Recorder Switch

This unique device is installed by inserting the modular plug into the telephone base. The handset is plugged into the back of the recorder switch and the 3.5mm plug is inserted into the microphone jack of the tape recorder. In record position simply activate record switch on any recorder and phone conversation will be recorded. In play position, the device will allow playing the recording back through the phone.

Cat. No. 30-6003



60 Minute Microcassettes

Two-pack of 60 minute microcassettes for use with telephone answering machines, microcassette recorders and dictation equipment. Authorized under Olympus License.

Cat. No. 30-9880



Modular Surface Jacks Display of 50

Easily mounts to baseboard or walls with adhesive tape or screws (included). Screw terminals for easy installation.

4-Conductor Ivory
Cat. No. 30-9604-50

4-Conductor White
Cat. No. 30-9614-50



Telephone Wall Plates Display of 25

Modular flush wall plate allows for connection of modular line cords. Ideal for initial installation or conversion from existing wall receptacles.

4-Conductor Ivory
Cat. No. 30-9707-25

4-Conductor White
Cat. No. 30-9717-25

CELLULAR



Motorola® Micro Tac Leather Case

- Protects phone from every day use
- Belt clip for carrying convenience
- Wrist strap protects from dropping/damaging
- Transparent face protects keypad

Cat. No. 30-7950

**Phone not included*



Nickel-Metal Hydride Battery Pack

- For use with most Motorola® Flip Phones
- Advantages of Ni-MN; No memory effect, enabling the battery to be fully charged at any level. No conditioning required
- 25 hour standby, 110 minute talk time
- 600 mAh

Cat. No. 30-7910



AC/DC Rapid Charger & Conditioner

- Charges both Ni-MH and Ni-Cd
- LED status indicator
- AC adapter for home or office
- DC adapter for car

Cat. No. 30-7960



Nickel Cadmium Battery Pack

- For use with most Motorola® Flip Phones
- 25 hour standby, 100 minutes talk time
- 100 mAh

Cat. No. 30-7930



Nickel-Metal Hydride Battery Pack

- For use with most Motorola® Flip Phones
- Advantages of Ni-MH; No memory effect, enabling the battery to be fully charged at any level. No conditioning required
- 18 hour standby, 70 minute talk time
- 600 mAh

Cat. No. 30-7920



Battery Saver/Charger

- Allows unlimited use while plugged into your vehicle
- Charges both Ni-MH and Ni-Cd batteries
- LED status indicator
- DC adapter for car

Cat. No. 30-7940



AUDIO

GC Electronics provides a rapidly expanding range of Audio products and accessories for both the Home Theater Market and the Professional Sound System. Distributors and Sound Installers can take advantage of GC's sourcing ability to obtain everything needed for an audio application, including speakers, wire, connectors, wall plates, and volume controls. GC also offers a wide range of plugs, jacks, interlink cables, headphones, adapters, and accessories. In today's homes and offices, sound systems are becoming integrated with voice, data, and video systems. As a result, GC becomes your key partner, integrating all of the major components needed for the complete low voltage system into a single package.

Epitome® Brand Home Theater Components assure you of consistent quality and performance. All Epitome speakers carry a five-year warranty for materials and workmanship. All other Epitome branded products carry a 10-year warranty. This reduces the potential for needless service calls.

Contents:

- Sound Distribution
- Distribution Products
- Speaker Selectors
- Stereo Distribution Boxes
- Volume Controls
- Speakers
- Free Standing
- In-Wall
- Ceiling
- Wall Plates
- Audio Accessories
- AC Adapters
- Cables
- Shielded and Unshielded
- Interlink Audio/Video Cables
- Connectors
- Audio Plugs, Jacks, Adapters, and Couplers
- Audio Y Adapters
- Power Flex Connectors and Adapters
- Headphones/Microphones
- Stereo Headphones
- Microphones, Connectors, and Replacement Cables
- Speakers and Accessories
- Speakers
- Speaker Selectors
- Tape Head Cleaning Accessories
- Volume Controls
- Speaker Wire



EPITOME®

*All Epitome speakers carry a five year warranty for material and workmanship. All other Epitome Branded products carry a 10 year warranty.



**Epitome® 3500
5-1/4" 2-Way In-Wall Speaker**

Specifications:
Woofer: 5-1/4" Polypropylene Cone
Tweeter: 1" Soft Dome
Impedance: 8 Ohms
Frequency Response: 50 Hz to 20 kHz
Power Handling: 60 Watts (Max.)
Sensitivity: 90 dB
Dimensions: 11"H x 7-1/2"W x 2-3/4"D

1 Pair w/Grill
Cat. No. 30-3500
 5-1/4" New Construction Bracket, 1 Pair
Cat. No. 30-3515



**Epitome® 3506
6-1/2" 2-Way In-Wall Speaker**

Specifications:
Woofer: 6-1/2" Polypropylene Cone with 25mm Voice Coil and 10 oz. Ceramic Magnet
Tweeter: 1" Soft Dome
Impedance: 8 Ohms
Frequency Response: 45 Hz to 20 kHz
Power Handling: 80 Watts (Max.)
Sensitivity: 90 dB
Dimensions: 12"H x 8-1/2"W x 3"D

1 Pair w/Grill
Cat. No. 30-3506
 6-1/2" New Construction Bracket, 1 Pair
Cat. No. 30-3516



**Epitome® 3576
6-1/2" 2-Way In-Wall Speaker
w/Directional Tweeter**

Specifications:
Woofer: 6-1/2" Polypropylene Cone
Tweeter: 1" Soft Dome Directional
Impedance: 8 Ohms
Frequency Response: 45 Hz to 20 kHz
Power Handling: 80 Watts (Max.)
Sensitivity: 90 dB
Dimensions: 12"H x 8-1/2"W x 3"D

1 Pair w/Grill
Cat. No. 30-3576
 6-1/2" New Construction Bracket, 1 Pair
Cat. No. 30-3516



**Epitome® 3508
8" In-Wall Speaker**

Specifications:
Woofer: 8" Polypropylene Cone
Tweeter: 1" Soft Dome
Impedance: 8 Ohms
Frequency Response: 40Hz to 20 kHz
Power Handling: 100 Watts (Max.)
Sensitivity: 90 dB
Dimensions: 14"H x 10-1/4"W x 4"D

1 Pair w/Grill
Cat. No. 30-3508
 8" New Construction Bracket, 1 Pair
Cat. No. 30-3518



**Epitome® 3580
8" In-Wall Subwoofer**

Specifications:
Woofer: 8" Polypropylene Cone
Impedance: 8 Ohms
Frequency Response: 40 Hz to 120 Hz
Power Handling: 100 Watts (Max.)
Sensitivity: 90 dB
Dimensions: 14"H x 10-1/4"W x 4"D

1 Piece, Grill Included
Cat. No. 30-3580
 8" New Construction Bracket, 1 Pair
Cat. No. 30-3518



**Epitome® 3525
5-1/4" Coaxial In-Wall Speaker**

Specifications:
Woofer: 5-1/4" Polypropylene Cone
Tweeter: 3/4" Polycarbonate Dome
Impedance: 8 Ohms
Frequency Response: 69 Hz to 20 kHz
Power Handling: 50 Watts (Max.)
Sensitivity: 90 dB
Dimensions: 6-3/4"H x 6-3/4"W x 2-1/4"D

1 Pair w/Grill
Cat. No. 30-3525



Epitome® 3526
6-1/2" Coaxial In-Wall Speaker

Specifications:
Woofer: 6-1/2" Polypropylene Cone
Tweeter: 3/4" Polycarbonate Dome
Impedance: 8 Ohms
Frequency Response: 65 Hz to 20 kHz
Power Handling: 50 Watts (Max.)
Sensitivity: 92 dB
Dimensions: 8"H x 8"W x 2-1/4"D
 1 Pair w/Grill
Cat. No. 30-3526



Epitome® 3529
6-1/2" Round Coaxial In-Wall Speaker
 w/Mounting Tabs

Specifications:
Woofer: 6-1/2" Polypropylene Cone
Tweeter: 3/4" Polycarbonate Dome
Impedance: 8 Ohms
Frequency Response: 65 Hz to 20 kHz
Power Handling: 70 Watts (Max.)
Sensitivity: 90 dB
Dimensions: 9" O.D.
 1 Pair w/Grill
Cat. No. 30-3529



Epitome® 3532
Shielded Center Channel Speaker
 Contemporary Design

Specifications:
Woofer: Dual 3-1/2" Copolymer Cones
Tweeter: 1/2" Mylar Dome
Impedance: 8 Ohms
Frequency Response: 150 Hz to 20kHz
Power Handling: 40 Watts (Max.)
Sensitivity: 92 dB
Dimensions: 4-1/2"H x 12-3/4"W x 5-3/4"D
 Measurement taken at deepest point
 1 Piece
Cat. No. 30-3532



Epitome® 3581
Directional Bookshelf Speakers

Use for background music or main system in conjunction with a subwoofer. Can be used in rooms where an unobtrusive speaker is desired and in-wall speakers are out of the question.

Specifications:
Woofer: Two 3" Woofer
Tweeter: Two .5" Coaxial Mylar Dome
Impedance: 4 Ohms
Frequency Response: 250 Hz to 20 kHz
Power Handling: 120 Watts (Max)
Sensitivity: 93 dB
Dimensions: 7"H x 4"W x 4"D

1 Pair, Black
Cat. No. 30-3581
 1 Pair, White
Cat. No. 30-3582



Acoustic Speakers

Excellent by themselves or in complementing an existing home theater system. Use where space is at a premium and quality sound is a requirement. They are also weather resistant, making them ideal for use in any outdoor or indoor location.

Specifications:
Woofer: 5" Polypropylene Cone
Tweeter: 1/2" Horn
Impedance: 8 Ohms
Frequency Response: 50 Hz to 20 kHz
Power Handling: 80 Watts (Max.)
Sensitivity: 89 dB

1 Pair, Black
Cat. No. 30-3510
 1 Pair, White
Cat. No. 30-3511



Shielded Indoor/Outdoor Surround Sound Speakers

These 3-way speakers are magnetically shielded, to allow placement near televisions. They are also weather resistant making them ideal for use in any outdoor or indoor location.

Specifications:
Woofer: 4" Polypropylene Cone
Midrange: 2" Polypropylene Cone
Tweeter: 3/4" Piezo Dome
Impedance: 8 Ohms
Frequency Response: 120 Hz to 18 kHz
Power Handling: 80 Watts (Max)
Sensitivity: 90 dB

1 Pair, Black
Cat. No. 30-3562
 1 Pair, White
Cat. No. 30-3561



DISTRIBUTION PRODUCTS



6 Pair In-Wall Speaker Selector

Features:

- Fits in standard triple gang J-Box
- Two source
- Removable screw to connect terminals for easy installation
- Selectable impedance protection
- Power Handling: 100 watts per channel (RMS) 200 watts per channel (max.)
- Triple Gang Trim Plate Included

Cat. No. 65-2005



Stereo Distribution Box

One input (two stereo pairs or 4 wires), 8 sets of wires out, rear panel push to connect terminals handle 10 to 22 gauge wire. Built-in switchable impedance protection can be switched in and out. Left and right channels are totally isolated, universal mounting panel supplied.

Specifications:

Power Handling Capacity: 300 Watts (protections switched off), 180 Watts (protections switched on).

Dimensions: 19"W x 3-1/2"H x 2-1/4"D

Cat. No. 65-2025



2 Source A/B Speaker Selector

An A/B speaker selector allowing either A speaker, B speaker or both A and B speakers to be played. This selector also features 2 sources.

Features:

- Rotary knobs
- Screw to connect terminal blocks for source input and speaker output
- 18 awg. color coded wire leads for volume control input and output
- Mounts in single gang electrical J-Box

Cat. No. 65-2020

VOLUME CONTROLS



10 Step Stereo Volume Control

A 10 step control with an attenuation range of 30 dB to provide a balanced graduation of volume. The unit is sealed to prevent malfunction from the harmful effects of dust and moisture allowing installation in any situation.

Specifications:

Power Handling Capacity: 25 Watts RMS, 75 Watts (Avg.)

Impedance: 8 Ohms

Frequency Response: 35 Hz to 20 kHz

Attenuation Range: 3 dB per step, last two steps are 6 dB

Total Attenuation: 30 dB (Max.), 0 dB (Min.)/Off

Number of Switch Steps: 10

*Mounts in standard electrical J-Box.

Decor Insert, White

Cat. No. 65-1520

Standard Wall Plate, White

Cat. No. 65-1530



12 Step Stereo Volume Controls

A 12-step control with an attenuation range of 34 dB to provide a balanced graduation of volume. The unit is sealed to prevent malfunction from the harmful effects of dust and moisture allowing installation in any situation.

Specifications:

Power Handling Capacity: 216 Watts (Max.)

Impedance: 8 Ohms

Frequency Response: 35 Hz to 20 kHz

Total Attenuation: 34 dB in 12 Steps, 8 Steps @ 3 dB, (4dB, 6 dB, Off)

*Mounts in standard electrical J-Box."

Volume Control, Decor Insert, White

Cat. No. 65-3500

Volume Control, Standard Wall Plate, White

Cat. No. 65-3510

Volume Control, Decor Insert, Ivory

Cat. No. 65-3501

Volume Control, Standard Wall Plate, Ivory

Cat. No. 65-3511



12 Step Stereo Volume Control

A 12-step control with an attenuation range of 30 dB to provide a balanced graduation of volume. The control has higher capacity for today's higher power systems. The unit is sealed to prevent malfunctions from the harmful effects of dust and moisture allowing installation in any situation. This unit features removable screws to connect terminals for easy installations.

Specifications:

Power Handling Capacity: 216 Watts (Max.)

Impedance: 8 Ohms

Frequency Response: 35 Hz to 20 kHz

Total Attenuation: 34 dB in 12 Steps, 8 Steps at 3 dB, (4 dB, 6 dB, Off)

Number of Switch Steps: 12

*Mounts in deep electrical J-Box at least 2.9" Deep.

Decor Insert, White

Cat. No. 65-3540



Adjustable Impedance Volume Controls

Preset Impedance X2 to X64. Reset At Any Time

A 12-step control with an attenuation range of 34 dB to provide a balanced graduation of volume. The unit is sealed to prevent malfunction from the harmful effects of dust and moisture allowing installation in any situation.

Specifications:

Power Handling Capacity: 216 Watts (Max.)

Impedance: Adjustable 2-32 Ohms

Frequency Response: 35 Hz to 20 kHz

Attenuation Range: 34 dB in 12 Steps, 8 Steps @ 3 dB, (4 dB, 6 dB, Off)

Number of Switch Steps: 12

*Mounts in standard electrical J-Box.

Volume Control Decor Insert, Ivory

Cat. No. 65-3535

Volume Control Decor Insert, White

Cat. No. 65-3536

UL & CSA APPROVED WALL PLATES



Telephone and Coax

Standard Wall Plates

Double Coax, One 6P4C Telephone, White
Cat. No. 32-3832

Double Coax, One 6P4C Telephone, Ivory
Cat. No. 32-3834

Double Coax, One 6P4C Telephone, Almond
Cat. No. 32-3836

Decor Wall Plate Inserts

Double Coax, One 6P4C Telephone, White
Cat. No. 32-8241

WALL PLATES



Coax Connectors

Standard Wall Plates

Single Coax, Gold, White
Cat. No. 32-3862

Single Coax, Gold, Ivory
Cat. No. 32-3770

Single Coax, Gold, Almond
Cat. No. 32-3769

Double Coax, Gold, White
Cat. No. 32-3897

Double Coax, Gold, Ivory
Cat. No. 32-3763

Double Coax, Gold, Almond
Cat. No. 32-3768

Decor Wall Plate Inserts

Single Coax, Gold, White
Cat. No. 32-3759

Single Coax, Gold, Ivory
Cat. No. 65-101

Double Coax, Gold, White
Cat. No. 32-3896

Double Coax, Gold, Ivory
Cat. No. 65-121

Triple Coax, Gold, White
Cat. No. 65-130

Triple Coax, Gold, Ivory
Cat. No. 65-131

Banana Jack/Spring Clip Connectors

Standard Wall Plates

1 Pair Banana Jacks, Gold, White
Cat. No. 30-6240

1 Pair Banana Jacks, Gold, Ivory
Cat. No. 30-6140

1 Pair Banana Jacks, Gold, Almond
Cat. No. 30-6340

2 Pair Banana Jacks, Gold, White
Cat. No. 30-6242

2 Pair Banana Jacks, Gold, Ivory
Cat. No. 30-6142

2 Pair Banana Jacks, Gold, Almond
Cat. No. 30-6352

Standard Wall Plates

Single Spring Clip, White
Cat. No. 30-1511

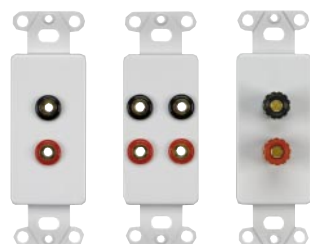
Single Spring Clip, Ivory
Cat. No. 30-1512

Single Spring Clip, Almond
Cat. No. 30-1516

Double Spring Clip, White
Cat. No. 30-1500

Double Spring Clip, Ivory
Cat. No. 30-1501

Double Spring Clip, Almond
Cat. No. 30-1503



Decor Quick Connect Solderless Inserts

These inserts take the soldering out of wall plate installation. The soldering is eliminated by using P.C. board technology.

1 Pair Banana Jacks, Gold, White
Cat. No. 65-6210

2 Pair Banana Jacks, Gold, White
Cat. No. 65-6220

Double RCA, Gold, White
Cat. No. 65-6140

1 Pair 5-Way Binding Posts, Gold, White
Cat. No. 65-6300

2 Pair 5-Way Binding Posts, Gold, White
Cat. No. 65-6310

Decor Wall Plate Inserts

1 Pair Banana Jacks, Gold, White
Cat. No. 30-6040

1 Pair Banana Jacks, Gold, Ivory
Cat. No. 65-211

2 Pair Banana Jacks, Gold, White
Cat. No. 30-6342

Decor Wall Plate Inserts

Single Spring Clip, White
Cat. No. 30-1510

Single Spring Clip, Ivory
Cat. No. 65-1511

Standard Wall Plates

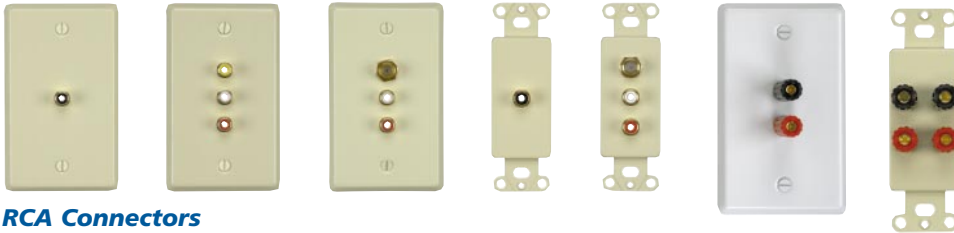
Double Push-In, Speaker Terminal, White
Cat. No. 30-1531

Double Push-In, Speaker Terminal, Ivory
Cat. No. 30-1534

Double Push-In, Speaker Terminal, Almond
Cat. No. 30-1533

Decor Wall Plate Inserts

Double Push-In, Speaker Terminal, White
Cat. No. 30-1535



RCA Connectors

Standard Wall Plates

- Single RCA, Gold, White
Cat. No. 30-1041
- Single RCA, Gold, Ivory
Cat. No. 30-1042
- Single RCA, Gold, Almond
Cat. No. 30-1044
- Double RCA, Gold, White
Cat. No. 30-1141
- Double RCA, Gold, Ivory
Cat. No. 30-1142
- Double RCA, Gold, Almond
Cat. No. 30-1144
- Triple RCA, Gold, White
Cat. No. 30-1160
- Triple RCA, Gold, Ivory
Cat. No. 30-1161
- Triple RCA, Gold, Almond
Cat. No. 30-1244
- Double RCA, Single Coax, Gold, White
Cat. No. 30-1170

- Double RCA, Single Coax, Gold, Ivory
Cat. No. 30-1171
- Double RCA, Single Coax, Gold, Almond
Cat. No. 32-3826

Decor Wall Plate Inserts

- Single RCA, Gold, White
Cat. No. 30-1040
- Single RCA, Gold, Ivory
Cat. No. 65-141
- Double RCA, Gold, White
Cat. No. 30-1140
- Double RCA, Gold, Ivory
Cat. No. 65-051
- Triple RCA Gold, White
Cat. No. 30-1240
- Double RCA, Single Coax, Gold, White
Cat. No. 32-3822
- Double RCA, Single Coax, Gold, Ivory
Cat. No. 65-171



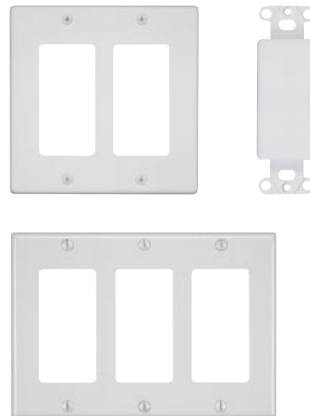
Binding Post Connectors

Standard Wall Plates

- 1 Pair 5-Way Binding Posts, Gold, White
Cat. No. 30-1051
- 1 Pair 5-Way Binding Posts, Gold, Ivory
Cat. No. 30-6050
- 1 Pair 5-Way Binding Posts, Gold, Almond
Cat. No. 30-1053
- 2 Pair 5-Way Binding Posts, Gold, White
Cat. No. 30-1151
- 2 Pair 5-Way Binding Posts, Gold, Ivory
Cat. No. 30-1152
- 2 Pair 5-Way Binding Posts, Gold, Almond
Cat. No. 30-1153

Decor Wall Plate Inserts

- 1 Pair 5-Way Binding Posts, Gold, White
Cat. No. 30-1050
- 2 Pair 5-Way Binding Posts, Gold, White
Cat. No. 30-1150
- 2 Pair 5-Way Binding Posts, Gold, Ivory
Cat. No. 65-311



Decor Trim Plates

- Decor Wall Plate, Single, White
Cat. No. 30-1010
- Decor Wall Plate, Single, Ivory
Cat. No. 65-401
- Decor Wall Plate, Double, White
Cat. No. 30-1020
- Decor Wall Plate, Triple, White
Cat. No. 65-404-BU

Blank Decor Insert

Use where future applications are planned but are not finalized.

Cat. No. 30-1000

- Blank Standard, White
Cat. No. 30-2000
- Blank Standard, Ivory
Cat. No. 30-3000
- Blank Standard, Almond
Cat. No. 30-5000

Note: Volume Controls and Decor Wall Plate Inserts Do Not include trimplates.

STEREO HEADPHONES



Lightweight Stereo Headphone

Produces clear stereo sound when used with portable equipment such as AM/FM radios and cassette players. Features include adjustable headband and foam earpads, attractive vibrant packaging. One year warranty.

Specifications:
Drive Unit: 27mm Mylar Speaker
Impedance: 32 Ohms
Sensitivity: 100 dB S.P.L. at 1 kHz +2%
Frequency Response: 20-20,000 Hz
Cord Length: 4 ft.

Cat. No. 61-533



Stereo Headphone

Dynamic stereo headphone with full range response to reproduce crystal clear sound. Lightweight design with an adjustable headband and soft foam earpads for a comfortable fit. 3.5mm stereo plug fits most personal radios and cassette players. One year warranty included.

Specifications:
Drive Unit: 27mm Mylar Speaker
Impedance: 32 Ohms
Sensitivity: 101 dB S.P.L. at 1 kHz +2%
Frequency Response: 20-20,000 Hz
Cord Length: 4 ft.

Cat. No. 61-555



Stereo Earbuds

The lightweight design for active individuals complements the live and vibrant sound of these stereo earbuds. Features include compact case for easy storage and portability, attractive four-color consumer packaging and a one year warranty.

Specifications:
Drive Unit: 13mm Mylar Speaker
Impedance: 32 Ohms
Sensitivity: 100 dB S.P.L. at 1 kHz +2%
Frequency Response: 20-20,000 Hz
Cord Length: 4 ft.

Cat. No. 61-546



Dynamic Stereo Headphone

Electrodynamic stereo headphones with foam filled vinyl ear cushions for a comfortable airtight fit. Includes left and right volume controls. Stereo/mono switch allows you to hear both drivers when listening to a mono source. 3.5mm stereo plug and a 1/4" stereo adapter.

Specifications:
Frequency Response: 20-18,000 Hz
Impedance: 32 ohms
Maximum Input: 100 mΩ
Sensitivity: 99 dB at 1KHz"

Cat. No. 90-502



Digital Stereo Headphone

Especially designed for use with compact disc players. High velocity mylar diaphragms have a real deep bass capability. Features include outstanding sound reproduction, attractive packaging, with a one year warranty.

Specifications:
Drive Unit: 27mm Mylar Speaker
Impedance: 32 Ohms
Sensitivity: 101 dB S.P.L. at 1 kHz +2%
Frequency Response: 20-18,000 Hz
Cord Length: 4 ft.

Cat. No. 61-548



Headphone Extension Cable

25 ft. coiled extension cable, with a miniature 3.5mm stereo jack to 1/4" stereo phone plug, includes a miniature 3.5mm stereo plug to 1/4" stereo phone jack adapter. Can be used to extend headphone cable to both personal equipment, using a 3.5mm jack, and home stereo equipment, using a 1/4" jack.

Cat. No. 30-1831



500 mA Universal AC Adapter

Powers electronic keyboards, calculators, portable radios and TV's, answering machines and other electronic products. Features six switchable voltage settings. 3 and 12 volts DC allow the universal AC adapter to power most DC powered electronic products. Saves batteries in portable electronic equipment. Six detachable adapter plugs fit all popular electronic products and ensure proper polarity.

Specifications:

Input AC: 120 Volts
Output DC: 3 - 4.5 - 6 - 7.5 - 9 - 12 Volts
Maximum Current: 500 mA
Output Adapter Plugs: 2.5mm, 3.5mm, 2.1mm x 5.5mm, 2.5mm x 5.5mm, 1.35mm x 3.5mm, 1.5mm x 5.5mm

Blister Card
Cat. No. 30-6012
 Clam Shell
Cat. No. 61-6012



800 mA Universal AC Adapter

Powers electronic keyboards, calculators, portable radios and TV's, answering machines and other electronic products. Features six switchable voltage settings. 3 and 12 volts DC allow the universal AC adapter to power most DC powered electronic products. Saves batteries in portable electronic equipment. Six detachable adapter plugs fit all popular electronic products and ensure proper polarity.

Specifications:

Input AC: 120 Volts
Output DC: 3 - 4.5 - 6 - 7.5 - 9 - 12 Volts
Maximum Current: 800 mA
Output Adapter Plugs: 2.5mm, 3.5mm, 2.1mm x 5.5mm, 2.5mm x 5.5mm, 1.35mm x 5.5mm, 1.5mm x 5.5mm

Blister Card
Cat. No. 30-6014
 Clam Shell
Cat. No. 61-6014



FM Wireless Intercom Set

Ideal for home or office and is simply installed by plugging the power cord into an AC outlet. Three separate channels enable you to select an unused channel for interference free operation. Service free, FM/PLL circuitry, assures that your voice communications are crisp and clear. A monitor switch, allows you to monitor children who are in different locations within the home. Attractive desk-type styling fits in any decor. This wireless Intercom set includes a pair of intercoms. A network can be made adding additional sets. Operates on standard AC current with low power consumption (less than a 3 watt light bulb) additional features include, solid state LED indicators, beep call for alerting other stations and a squelch feature to reduce noise. UL listed. FCC registered.

Specifications:

Range: Maximum 1,000 ft.
Modulation: FM
Channel: 3 Channels
Circuitry: PLL (Phase-Locked-Loop)
Power Source: 115V-120V
Power Consumption: 3W
Frequency: Channel A 200 kHz
RF Output Power: 50mΩ across 10 ohm Channel B 230 kHz, Channel C 260 kHz
Measurement: W7" x D4-1/4" x H2" (178 x 121 x 51) mm
Audio Power: 350mΩ
Weight: 1-3/16 lb. (550 grams)
Cat. No. 30-6035



Audio Cable

This fully shielded audio cable is ideal for custom audio connections. The superior quality of this cable can be used in car and home installations. 500 ft. length.

Dual Audio Cable
Cat. No. 14-219-9H63



Speaker Wire

Clear plastic, color-coded wire in display package.

18 Gauge, 50 ft.
Cat. No. 30-584
 18 Gauge, 100 ft.
Cat. No. 30-554
 20 Gauge, 50 ft.
Cat. No. 30-553
 24 Gauge, 50 ft.
Cat. No. 30-586
 24 Gauge, 100 ft.
Cat. No. 30-588



PowerFlex™ Speaker Cable

Oxygen free finely stranded bare copper conductors cabled in a Rope Lay design to increase the conductive surface, reduce "skin effect", and insure maximum flexibility. Extra soft, super flexible 60°C clear PVC insulation. Extremely low capacitance, resistance and inductance of these cables transfer music signals from amplifier to speakers with high clarity and definition. Surface printed for identification and polarity.

Specifications:

- #12 AWG
- Oxygen free copper, 259 strands per conductor
- 200 x .415 nominal wire size

25 ft.

Cat. No. 30-583

100 ft.

Cat. No. 14-212-9H43

250 ft.

Cat. No. 14-212-9H53

500 ft.

Cat. No. 14-212-9H63

Specifications:

- #10 AWG
- 413 bare oxygen free copper strands per conductor
- .240 X .485 nom. wire size

25 ft.

Cat. No. 30-581

100 ft.

Cat. No. 14-210-9H43

250 ft.

Cat. No. 14-210-9H53

500 ft.

Cat. No. 14-210-9H63

PowerFlex™ Audio Connectors

Power Flex connectors are available in four popular styles. These connectors will provide the best possible connection between your speakers and audio/video equipment. Gold plated solid brass construction provides ultra low resistance and prevents deterioration of contact surfaces. For use with Power Flex™ speaker cable or any other wire not exceeding 10 gauge.



Gold compression (solderless) spade lugs. (pkg. of 2)

Cat. No. 30-1200

Gold crimp or solder spade lugs. (pkg. of 2)

Cat. No. 30-1203

Gold crimp or solder flexible pin plugs. Color coded insulators. (pkg. of 4)

Cat. No. 30-1204

Gold compression (solderless) pin plugs. (pkg. of 2)

Cat. No. 30-1205

Gold crimp or solder banana plugs. Color coded insulators. (pkg. of 2)

Cat. No. 30-1208

Gold compression (solderless) banana plugs. (pkg. of 2)

Cat. No. 30-1210



PowerFlex™ Audio Adapters

These adapters will provide the best possible connection between your cabling and audio/video equipment. Gold plated solid brass construction provides ultra low resistance and prevents deterioration of contact surfaces.

Gold RCA Jack to RCA Jack

Cat. No. 30-1212

Gold RCA Plug to RCA Plug

Cat. No. 30-1213

Gold RCA Plug to Dual RCA Jack

Cat. No. 30-1215



SuperLink™ Dual A/V Cable

SuperLink™ Audio/Video Cable is constructed with OFC (Oxygen Free Copper) stranded center conductor and a 90% copper shield over a 100% mylar foil protected by a super flexible jacket. For use when customizing audio patch cables to interlink CD players, amplifiers, tuners, VCR's and tape decks. This made to measure interconnect keeps the length of cable between connections to a minimum. Use Superlink I or II connectors for termination. Impedance: 75 ohms.

.230 O.D.

100 ft.

Cat. No. 14-990-2H41

250 ft.

Cat. No. 14-990-2H51

SuperLink™ Connectors

The SuperLink™ connectors use a light weight aluminum alloy connector shell to prevent oxidation and corrosion. 24 K gold plated phono pin plugs provide the best conductivity and maximum signal transfer available. Use with high performance interconnect cables. Available in three color codes, platinum, black, or red. Solder connections.

Platinum Pkg. of 2

Cat. No. 30-1230

Black Pkg. of 2

Cat. No. 30-1231

Red Pkg. of 2

Cat. No. 30-1232



Unshielded Cables

2-conductor male RCA phono pin plug to male RCA phono pin plug.

20 ft. 24 AWG

Cat. No. 30-1706

40 ft. 24 AWG

Cat. No. 30-1708

20 ft. 18 AWG

Cat. No. 30-1705

40 ft. 18 AWG

Cat. No. 30-1707





Shielded Cables

2-conductor RCA phono pin plug to RCA phono pin plug.

1-1/2 ft.
Cat. No. 30-400

3 ft.
Cat. No. 30-402

6 ft.
Cat. No. 30-404

12 ft.
Cat. No. 30-406

3 ft. Gold
Cat. No. 30-402-3

6 ft. Gold
Cat. No. 30-404-3



RCA phono pin plug to 3.5mm miniature phone plug.

3 ft.
Cat. No. 30-401

6 ft.
Cat. No. 30-403



RCA phono pin plug to standard 1/4" phone plug.

6 ft.
Cat. No. 30-444



RCA phono pin plug to RCA phono pin jack.

3 ft.
Cat. No. 30-426

6 ft.
Cat. No. 30-428

12 ft.
Cat. No. 30-430



Right angle RCA phono pin plug to right angle RCA phono pin plug.

6 ft.
Cat. No. 30-1856

Dual RCA phono pin plugs to dual RCA phono pin plugs.

3 ft.
Cat. No. 30-407

6 ft.
Cat. No. 30-408

12 ft.
Cat. No. 30-409

25 ft.
Cat. No. 30-513

3 ft. Gold
Cat. No. 30-407-3

6 ft. Gold
Cat. No. 30-408-3



Car Stereo Cable

Dual RCA plugs with grounding wire at both ends. For custom car installations.

17 ft.
Cat. No. 30-413



Dual Stereo Cable

Premium audio cable with dual RCA plugs at both ends.

17 ft.
Cat. No. 30-419



Dual RCA phono pin plugs to dual RCA jacks.

3 ft.
Cat. No. 30-410



6 ft.
Cat. No. 30-411



Shielded Cables

3.5mm miniature phone plug to 3.5mm miniature phone plug.

3 ft.
Cat. No. 30-1808

6 ft.
Cat. No. 30-1809



3.5mm miniature phone plug to 1/4" phone plug.

6 ft.
Cat. No. 30-431



3.5mm miniature phone plug to 3.5mm miniature phone jack.

6 ft.
Cat. No. 30-1806



12 ft.
Cat. No. 30-1807



3.5mm miniature phone plug to stripped ends.

6 ft.
Cat. No. 30-415



1/4" phone plug to 1/4" phone plug.

6 ft.
Cat. No. 30-443



1/4" phone plug to right angle 1/4" phone plug.

20 ft. Coiled
Cat. No. 30-556



Standard and stereo 1/4" phone plug to standard and stereo 1/4" phone jack. Stereo cables are headphone extension cords.

20 ft. Stereo
Cat. No. 30-1824



25 ft. Coiled Stereo
Cat. No. 30-1825



Dual RCA phono plugs to 3.5mm stereo miniature phone plug.

6 ft.
Cat. No. 30-1812



Shielded Cables (cont.)

3.5mm miniature stereo phone plug to 3.5mm miniature stereo phone plug.

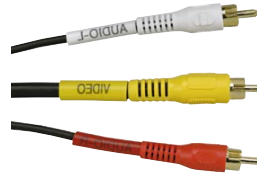
6 ft.
Cat. No. 30-1821

3.5mm miniature stereo plug to 3.5mm miniature stereo jack.

10 ft.
Cat. No. 30-1811

2.5mm subminiature plug to 2.5mm subminiature jack.

20 ft.
Cat. No. 30-1830



Stereo Dubbing Cable

Gold plated triple RCA plugs to gold plated triple RCA plugs. For dubbing between two stereo VCR's.

Cat. No. 30-1537

25 per Carton
Cat. No. 30-1537-25



Pistol Type Cables

RCA type phono plugs with jack adapter to RCA phono plugs shielded cable.

Use when only one auxiliary input is available and there are two devices (CD player, stereo VCR, etc.) that need to be connected.

3 ft.
Cat. No. 30-1826

6 ft.
Cat. No. 30-1827

12 ft.
Cat. No. 30-1828

AUDIO PLUGS



Std. 1/4" Phone Plugs – 2-Conductor

Shielded metal handle. Solder terminals.
Cat. No. 30-483-6

Shielded metal handle. Screw terminals.
Cat. No. 30-484-6

Shielded metal handle. Right angle type. Solder terminals.
Cat. No. 30-487

Black plastic handle. Solder terminals.
Cat. No. 30-483

Black plastic handle. Screw terminals.
Cat. No. 30-484

Red plastic handle. Solder terminals.
Cat. No. 30-483-1

Red plastic handle. Screw terminals.
Cat. No. 30-484-1



1/4" Stereo Phone Plugs – 3-Conductor

Shielded metal handle. Solder terminals.
Cat. No. 30-489-6

Shielded metal handle. Screw terminals.
Cat. No. 30-490

Black plastic handle. Solder terminals.
Cat. No. 30-489

Black plastic handle. Screw terminals.
Cat. No. 30-488

Miniature (3.5mm) Stereo Phone Plug

Black plastic handle. Solder terminals.

Cat. No. 30-572
Gold
Cat. No. 30-572-3

Pkg. of 10
Cat. No. 30-572-BU



Miniature (3.5mm) Phone Plugs

Shielded metal handle. Solder terminals.
Cat. No. 30-498-6

Black plastic handle. Solder terminals.
Cat. No. 30-498-2

Gold
Cat. No. 30-498-3



Subminiature (2.5mm) Phone Plugs

2.5mm subminiature 3-conductor phone plug.

Pkg. of 2
Cat. No. 30-519



Phono Pin Plugs (RCA Style)

Package of 2 with shielded metal handle. Heavy duty. Solder terminals.

Cat. No. 30-534
Gold
Cat. No. 30-534-3

Pkg. of 10
Cat. No. 30-534-BU

Pkg. of one each with red and black plastic handle. Right angle type. Solderless terminals.

Cat. No. 30-533

Power Supply Plugs

Fits power supply jacks on recorders, radios, dictating machines, calculators, etc. Pkg. of one each for the two standard pin diameters. 2.1mm and 2.5mm.

Pkg. of 2 Standard Length, 10mm – approx. 3/8"

Cat. No. 30-475

Pkg. of 2 Long Length, 14mm – approx. 9/16"

Cat. No. 30-476

1.3mm DC power plug fits walkman-type cassettes. Molded thermoplastic body. Solder connections.

Cat. No. 30-480



Mike Connectors

Cannon Style." 3 pin male.

Cat. No. 30-1692

Cannon Style." 3 pin female.

Cat. No. 30-1690

Chassis/cabinet style. 3 pin female.

Cat. No. 30-1694

AUDIO JACKS

Std. 1/4" Phone Jacks – 2-Conductor

Chassis mounting. Closed circuit. .350" mtg. hole. Solder lugs.

Cat. No. 30-540-1

Chassis mounting. Open circuit. .350" mtg. hole. Solder lugs.

Cat. No. 30-540

Cord mounting. Open circuit. Black plastic handle. Solder terminals.

Cat. No. 30-548



Miniature (3.5mm) Phone Jacks

Chassis mounting. Closed circuit. 1/4" mtg. hole. Solder lugs.

Cat. No. 30-546

Cord mounting. Open circuit. Black plastic handle. Solder terminals.

Cat. No. 30-543-1

Cord mounting. Open circuit. Solder connections. For stereo plugs.

Cat. No. 30-575



1/4" Stereo Phone Jacks – 2-Conductor

Chassis mounting. Open circuit. 3/8" mtg. hole. Solder lugs.

Cat. No. 30-541

Cord mounting. Open circuit. Heavy duty shielded metal handle. Solder terminals.

Cat. No. 30-542



Phono Pin Jacks (RCA Style)

Cord mounting. Open circuit. Pkg. of 2 with shielded plastic handle. Solder terminals.

Cat. No. 30-536

Dual chassis mounting. 1-1/2" long. Open circuit. 130" dia. holes on 1.770" centers. Solder type.

Cat. No. 30-537

Chassis mounting. Open circuit. 1/4" mtg. hole. Solder lugs. Pkg. of 2.

Cat. No. 30-528



3.5mm Miniature 3-Conductor Phone Jack

P.C. board mounted or panel-mounted (mounting nut furnished).

Mates with all standard 3.5mm stereo plugs. Normally closed circuit.

Cat. No. 30-574



Chassis Mounting Jack

Gold plated chassis mounting RCA jack with grounding lug. Gold connections provide optimum performance in home and car installations.

Cat. No. 30-528-3



AUDIO ADAPTERS



Std. 1/4" Phone Plug One End

Std. 1/4" phone plug (2 cond.) to miniature (3.5mm) phone jack.

Cat. No. 30-472-1

N.S.N. 5935-00-601-8693



Mini (3.5mm) stereo phone jack to 1/4" stereo phone plug (3 cond.). Permits use of headphones (with 3.5mm stereo plug) with units which have 1/4" stereo output jacks.

Cat. No. 30-1574



Gold plated 3.5mm stereo jack to 1/4" stereo plug. This adapter permits use of stereo headphones with a 3.5mm plug to be used on home entertainment systems with a 1/4" jack.

Gold

Cat. No. 30-1575



Standard 2-conductor 1/4" phone plug to RCA phono pin jack.

Cat. No. 30-472



Phono Pin (RCA Style) Plug One End

Phono pin plug to miniature (3.5mm) phone jack.

Cat. No. 30-473-1



Phono pin plug to std. 1/4" phone jack (2-conductor).

Cat. No. 30-473



Miniature (3.5mm) Plug One End

Miniature (3.5mm) phone plug to phono pin jack.

Cat. No. 30-495



1/4" stereo phone jack (3 cond.) to mini (3.5mm) stereo phone plug. Flexible cable prevents damage to equipment jacks. Permits use of headphones (with 1/4" stereo plug) with components with 3.5mm stereo output jacks.

Cat. No. 30-1576



Miniature (3.5mm) phone plug to std. 1/4" phone jack (2-conductor).

Cat. No. 30-496



Miniature (3.5mm) phone plug to 1/4" stereo phone jack (3-conductor).

Cat. No. 30-1554



3.5mm stereo jack at one end; 3.5mm monaural plug at the other.

Cat. No. 30-1587



Subminiature (2.5mm) Phone Plug One End

Subminiature (2.5mm) phone plug to miniature (3.5mm) phone jack.

Cat. No. 30-478

AUDIO COUPLERS



Right Angle Adapter

Space limitations often require the use of a RCA male to RCA female right angle adapter. Gold plated connections for optimum performance in home or car installations.

Cat. No. 30-474



Stereo Coupler

3.5mm stereo jack to 3.5mm stereo jack. Used to extend 3.5mm stereo cables.

Cat. No. 30-1571



Audio Coupler

Phono pin jack to phono pin jack.

Cat. No. 30-470

Gold

Cat. No. 30-470-3

Pkg. of 10

Cat. No. 30-470-BU



Dual Coupler

Used to extend dual RCA audio cables. Gold plated for optimum performance in home and car installations.

Cat. No. 30-477



2-conductor standard 1/4" phone jack to 2-conductor standard 1/4" phone jack.

Cat. No. 30-1570



RCA Male Coupler

Male to male RCA coupler to connect two RCA jacks. Gold plated for optimum performance in home and car installations.

Cat. No. 30-469

AUDIO "Y" ADAPTERS

Phono Pin Plug & Jack Combinations



Phono pin plug to two phono pin jacks.

Cat. No. 30-510

Gold

Cat. No. 30-510-3

Pkg. of 10

Cat. No. 30-510-BU



Phono pin jack to two phono pin plugs.

Cat. No. 30-512

Gold

Cat. No. 30-512-3

Pkg. of 10

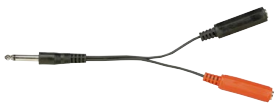
Cat. No. 30-512-BU



Phono pin plug to two phono pin plugs.

Cat. No. 30-514

1/4" Phone Plug & Jack Combinations



Standard 2-conductor 1/4" phone plug to two standard 2-conductor 1/4" phone jacks.

Cat. No. 30-522

3-conductor 1/4" stereo phone plug to 2-conductor standard 1/4" phone jacks.

Cat. No. 30-524

3-conductor 1/4" stereo phone plug to two 3-conductor 1/4" stereo phone jacks.

Cat. No. 30-1560



Miniature (3.5mm) Plug & Jack Combinations

Miniature (3.5mm) phone plug to two miniature (3.5mm) phone jacks.

Cat. No. 30-1558

3.5mm mini stereo phone plug to two 3.5mm mini stereo phone jacks.

Cat. No. 30-1559

3.5mm stereo phone plug to two phono pin jacks.

Cat. No. 30-1565



Metal "Y" Adapters

Std. 1/4" phone plug (2-conductor) to two phono pin jacks.

Cat. No. 30-500

Phono pin plug to two phono pin jacks.

Cat. No. 30-504



AUTO ACCESSORIES



Universal Regulated Car Power Adapter

A high quality 300-500-1200mA regulated DC adapter with the ability to convert the power from your car cigarette lighter to any one of the four output voltages with different current, 3V at 300mA, 6V and 9V at 500mA, 12V at 1200mA. Can be used with most portable cassette players, radios, CD players, mini TVs and many other battery run appliances. This unit also has reverse polarity to allow usage with units which have either positive or negative center pin.

Cat. No. 30-3125



DC Power Cord

6 ft. Curley Power Cord with right angle 2.1mm power supply plug to cigarette lighter plug. Can be used to replace power cords on most radar detectors and other equipment such as CB's, radios, cellular phones and tape recorders.

Cat. No. 30-3155



Cigarette Lighter Plugs

For operating electrical plug-in accessories: trouble lights, transistorized inverters, portable spotlights, bottle warmers, CB's, 12 volt TVs, etc.

Cat. No. 30-3152

Fused Plug [includes 2 amp fuse]

Cat. No. 36-902



Cigarette Lighter Socket Adapters

Allows use of several accessories in your car – scanner, radar detector, tape recorder, portable TV, etc. No power loss when in use.

Dual Adapter with 12" "Y" Connector Cord
Cat. No. 30-3151

Triple Adapter with 4 ft. Cord
Cat. No. 30-3153



Battery Saving DC Adapter

3, 6, 7.5 or 9 volts

Use your car or boat battery to power a tape recorder, dictating machine, portable radio or CB set. Plugs into cigarette lighter receptacle. Saves batteries – gives you full power, always. Transistor regulated circuit assures constant voltage. Max. current: 300mA. Comes with special adapter with three plugs to fit practically any set and has polarity reversing feature. Switches to 3, 6, 7.5 or 9 volts.

Cat. No. 30-3124

Auto Antenna "Y" Connector

Allows hook up of an additional AM, FM, AM/FM radio or CB to car radio antenna. Motorola type plug and jack.

2 Plugs to 1 Jack
Cat. No. 30-3081



SPEAKERS AND ACCESSORIES



Pillow Speaker

Enjoy listening to TV or radio without disturbing others. 6 ft. cord with 3.5mm miniature phone plug fits most transistor radios, tape recorders and many TV's. Dynamic type. 8 ohm impedance.

Cat. No. 30-160



Stereo Speaker Wall Jack

Convenient, wall-mounted stereo speaker jacks that hook to amplifier to allow operation of stereo speakers in any room. Simply plug speakers in. Equipped with two RCA-type phono jacks.

Cat. No. 30-367



Miniature Earphones

Lightweight and comfortable. For transistor radios, tape recorders, TV's, etc. Finest dynamic type for crystal clear sound. Earclip is reversible to fit either ear.

Plug	Cord	Imp.	Cat. No.
Mini	3 ft.	Low	30-5300
Mini	3 ft.	High	30-5302
Sub-Mini	3 ft.	Low	30-5304
Mini	12 ft.	Low	30-5306



Foot Switch

SPST, normally open. Maximum rating: 250V-5A. Includes 4 ft. cable with sub-mini (2.5mm) plug. Skid-proof rubber base.

Cat. No. 30-041



Audio System Selector

The audio selector allows for the switching of up to 4 stereo audio input sources (CD Players, Tape Decks, Receivers, etc.) to 1 audio output. RCA type phono jack connections.

Cat. No. 30-8745

VOLUME CONTROLS



Cabinet Mounting Type

"L" pad circuit with power handling capacity of 10 watts peak audio. For use with 8 to 16 ohm speakers. Long threaded shafts permit installation in cabinets up to 1" thick. Single-hole mounting. Supplied with knob and black plastic face with silver lettering. Solder terminals.

Single "L" Pad
Cat. No. 30-315
 Stereo "LL" Pad
Cat. No. 30-316



Wall Mounting Type

Same circuitry and electrical specifications as Cabinet Type shown above, but mounted on elegant brushed gold plate which fits standard electrical outlet box. Can also be mounted flush in any wall opening of 2-1/4" x 2-3/4". Screw terminals.

Single "L" Pad
Cat. No. 30-364
 Stereo "LL" Pad
Cat. No. 30-372

TAPE CLEANING ACCESSORIES



Tape Head Cleaner

Head Cleaner removes dirt and grease from heads, guides and capstans. Cotton swab applicators included.

2 fl. oz. [59 ml.]
Cat. No. 19-5302
 N.S.N. 5835-00-885-3818



Cassette Head Cleaner Kit

The professional way to "solvent clean" heads in cassette recorders. Will safely remove all deposits on heads, guides, etc., and restore original sound quality. Exclusive process uses special cloth belt. Just apply a few drops of liquid to belt in cassette, play, and your recorder will sound like new.

Cat. No. 30-622



Lintless Head Cleaning Swabs

Lintless swabs are ideal for cleaning delicate audio or video tape head mechanisms. Nonabrasive, absorbent tips are polyurethane foam over cotton on a 6" wooden handle. Swabs are re-usable. Pkg. of 20.

Cat. No. 10-277



Electronic Cassette Demagnetizer

Effectively reduces magnetic build-up and upgrades tape performance on all cassette decks. Requires only 1 second for complete demagnetization. LED indicates unit is operating. Includes battery and protective case.

Cat. No. 30-633

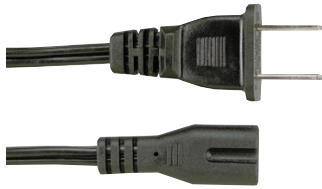


Clean Sticks

Cotton-tipped swabs for lubricating and cleaning recorder heads and other electronic or mechanical equipment. Excellent for getting at hard-to-reach places. Pkg. of 50 6" swabs.

Swabs, 50 pcs.
Cat. No. 10-270

MICROPHONES & CORDS



Cassette Power Cord

SPT-1, 18 gauge, 2 conductor cord. Non-polarized. 6 ft. Replacement for Sony Model 1-534-830, Panasonic Model SJA 50, Craig, Hitachi, Crown and others.

Cat. No. 30-467



Shielded Low-Noise Replacement Cable for Microphones

Heavy duty 2-conductor 16 ft. rubber cable features a Switchcraft type A3F 3-pin female connector with spring locking latch at one end to a shielded 1/4" phone plug at the other.

Cat. No. 30-1697



20 Ft. Replacement Microphone Cables

Heavy duty 2-conductor shielded cable with Switchcraft 3-pin female connector on one end and a Cannon type 3-pin male at the other. Lock switch pushbutton connects and releases cable. For balanced line microphones.

Cat. No. 30-1695



Low Impedance Tape Recorder Microphone

For the recording enthusiast who wishes to improve the quality of a low or medium priced tape recorder. Low impedance matches most late model (solid state) portable recorders. On/off switch. Removable desk stand furnished. 200 ohm impedance. 4 ft. cable with 2.5mm plug and 3.5mm plug.

Cat. No. 30-2300



Matched Pair Stereo Microphones

Rugged, high impact plastic stereo microphones for all voice and stereo recording applications. Sensitive omni-directional response pattern minimizes feedback. Each mike features on/off remote control switch, windscreen and desk stand. 500 ohm impedance. 4.3 ft. cable with 1/4" plug. 3.5mm plug to 1/4" jack 0 included.

Pair of Microphones
Cat. No. 30-2308

Single Microphone
Cat. No. 30-2307



VIDEO

Finding the right connector can be the most frustrating experience that an Electronics professional can have. GC simplifies your search. In this section, you'll find a greatly expanded range of connectors, covering the most common applications known. However, if you have more stringent specs, take advantage of GC's 70 years of industry contacts and let us find you the product you need.

GC's Video products make it easy to meet the growing needs of the video market. This section offers you some of the most difficult to find products that are required for "on air" reception, cable, and satellite systems. The advent of DSS has given rebirth to the need for antennas and antenna hardware, for local reception. In addition, digital broadcasting and HDTV make antenna systems more critical than ever before. This section gives you access to hundreds of products that enable you to adapt your video needs to the delivery system that is best for you.

GC's offering of Video products enables you to obtain all of the tools and accessories needed in today's low voltage world from a single source. Combine your Video needs with the offerings found in the other accessory sections of this catalog, including Datacom, Voice, and Audio installations.

Contents:

- Connectors
- Video
- Antennas
- Indoor
- Outdoor
- Installation Hardware
- Video Enhancement Products
- Amplifiers
- Cleaning Products
- Game Adapters
- Modulators
- Satellite Accessories
- Selectors
- Signal Combiners
- Splitters
- Television Wall and Ceiling Mounts
- Tools
- Wall Plates



COMMERCIAL COAX CONNECTORS

"F" Coaxial Connectors



Male crimp-on with attached 1/2" crimp ring.

Cable Type	Cat. No.
RG-6 Tri-Shield	32-416-BU
RG-59 Tri-Shield	32-425-BU
RG-6 Brass	32-432
RG-59 & 62 Brass	32-433
RG-6	32-439
RG-59 & 62	32-440
RG-6 Quad Shield	32-2990-BU
RG-59 Quad Shield	32-2991-BU



Male crimpless twist-on.

Cable Type	Cat. No.
RG-59 & 62	32-3002
RG-6	32-3003
RG-59 & 62 Gold	32-3702



Male crimp-on with 1/8" attached crimp.

Cable Type	Cat. No.
RG-59 & 62	32-3000
RG-59 & 62 Gold	32-3701



Male crimp-on with 1/2" separate crimp ring.

Cable Type	Cat. No.
RG-59 & 62	32-428-BU



Male crimp-on with 1/4" separate crimp ring.

Cable Type	Cat. No.
RG-6	32-429
RG-59 & 62	32-430



Male crimp-on with 1/8" separate crimp ring.

Cable Type	Cat. No.
RG-59 & 62	32-427-BU



Male crimp-on with 1/4" attached crimp ring.

Cable Type	Cat. No.
RG-6	32-412-BU



Male twist-on/push-on, crimpless.

Cable Type	Cat. No.
RG-59 & 62	32-3202



Gel-filled Blue RG-6 Connector with Sealer Ring

A universal connector fits RG-6 quad, tri-shield and standard RG-6 Coax. Sealer ring prevents moisture from damaging connection integrity. 1 1/4" ring.

Cat. No. SD-443-BU



Weatherproof "F" Connector RG-6

Gel-filled with "o" ring.

Cat. No. SD-444-BU



Gel-filled with Permanent "O" Ring Seal RG-6

Weatherproof "F" Connector RG-6. Requires coax hex crimp tool for attachment.

Cat. No. SD-445



Commercial Weatherproof "F" Connector RG-6

Compression crimp protects center conductor from crimp damage. Includes locking nut to weatherproof head-end of connector.

RG-6

Cat. No. SD-446-BU

Locking Nut only

Cat. No. SD-446-1-BU



Twist On Connector RG-6

Easily attaches by hand. No crimp tool needed.

Pkg. of 1 RG-6

Cat. No. SD-447-BU



Quick-lock Connector RG-6

RG-6 (Indoor). Secures positive, tug-resistant connection.

Cat. No. SD-448-BU



"F" Chassis Mounts

Chassis mount with nut and washer.

Cat. No. 32-466-BU



PC board chassis mount.

Cat. No. 32-465



Right angle PC mount 28mm.

Cat. No. 32-467-BU



"F" Adapters

Female to female, knurled.
Cat. No. 32-3999-BU



"F" Female to female with nut and washer.
Cat. No. 32-3006
Gold
Cat. No. 32-3706



"F" Double male coupler, knurled.
Cat. No. 32-3007



"F" Adapters

"F" Female to push-on "F" Male.
Cat. No. 32-3100
Gold
Cat. No. 32-3700



"F" Female to Pal Female
Cat. No. 32-4001-BU



"F" Female to Pal Male
Cat. No. 32-3174



Blocks harmful DC voltage from cable company transmissions that could damage TV's, VCR's, etc. (Voltage Blocking Coupler)
Cat. No. 32-3180



"F" Female to UHF (PL-259) Male.
Cat. No. 32-3101-BU



"F" Male to UHF Female
Cat. No. 32-3114



"F" Female to RCA Male
Cat. No. 32-3102



"F" Female to RCA Female
Cat. No. 33-1566



"F" Male to RCA Female.
Cat. No. 32-3108



"F" Female to 3.5 mm male.
Cat. No. 32-3103



"F" Female to BNC Male
Cat. No. 32-3104



"F" Male to BNC Female.
Cat. No. 32-3120



"F" Male to PAI Female
Cat. No. 32-4000-BU



Right angle connector "F" Male to "F" Female.
Cat. No. 32-3110



Right Angle F Quick Male to Female
Cat. No. 32-3105



"F" Terminator, 75 ohm 1/2 Watt @ 5%.
Cat. No. 32-436

BNC Coaxial Connectors

Male twist-on, one piece construction, crimpless and solderless.



Cable Type	Cat. No.
RG-59 & 62	33-1100
RG-6	33-1148
RG-58	33-1149
RG-59 & 62 Teflon	33-1150

Female twist-on, one piece construction, crimpless and solderless.



Cable Type	Cat. No.
RG-59 & 62	33-1101-BU

Male compression, four pieces, solder center pin.



Cable Type	Cat. No.
RG-58	33-1180-BU
RG-59 & 62	33-1181-BU

Male crimp type, two piece construction, solderless.



Cable Type	Cat. No.
RG-59 & 62	33-1103
RG-58	33-1104
RG-6	33-1169-BU
RG-59 & 62 Teflon	33-1153-BU
RG-58 AU	33-1167-BU

Male crimp type, three piece construction, solderless.



Cable Type	Cat. No.
RG-59 & 62	33-1160
RG-58	33-1161
RG-6	33-1162
RG-59 & 62 Teflon	33-1163
RG-174, 179 & 187	33-1165-BU
RG-58 AU	33-1168-BU

Male compression, six pieces, solder center pin.



Cable Type	Cat. No.
RG-58	33-1155
RG-59 & 62	33-1173

Male Clamp-On



Cable Type	Cat. No.
RG-59 & 62	32-3005-BU



Female crimp type, two piece construction, solderless

Cable Type	Cat. No.
RG-59 & 62	33-1120-BU
RG-58	33-1121-BU
RG-6	33-1122-BU



Female twist-on, one piece construction, crimpless and solderless.

Cable Type	Cat. No.
RG-58	33-1130-BU
RG-6	33-1131-BU

BNC Terminators.



Rating	Cat. No.
BNC 50 Ohm	33-1176-BU
BNC 75 Ohm	33-1175-BU
BNC 93 Ohm	33-1177-BU

BNC Adapters



BNC Double Male.

Cat. No. 33-1195



BNC "T" one male, two female.

Cat. No. 33-1196



BNC three male.

Cat. No. 32-3123



BNC double female.

Cat. No. 32-3119



BNC "T" three female.

Cat. No. 33-1197



BNC four female.

Cat. No. 33-1199-BU



BNC male to RCA female.
Cat. No. 32-3109



BNC female to RCA male.
Cat. No. 32-3121



BNC female to UHF female.
Cat. No. 32-3122-BU



BNC female to UHF male.
Cat. No. 32-3118-BU



BNC male to UHF female.
Cat. No. 32-3115



BNC male to "N" male.
Cat. No. 32-3116-BU



BNC male to "N" female.
Cat. No. 32-3117



BNC female to "N" male.
Cat. No. 33-1555



BNC male to TNC female.
Cat. No. 32-3190



Right angle male to female
Cat. No. 33-1102



BNC Chassis Mounts

BNC dual female chassis mount, mounting hole 1/2"

Cat. No. 33-1106-BU



BNC female chassis mount, insulated, mounting hole 3/8"

Cat. No. 33-1232-BU



BNC female chassis mount, mounting hole 3/8"

Cat. No. 33-1231-BU



"N" Connectors

Male compression, six piece construction.

Cable Type	Cat. No.
RG-8, 213 & 214	33-1500-BU



Male crimp type, two piece construction.

Cable Type	Cat. No.
RG-59 & 62	32-3112-BU
RG-58	32-3128-BU



Male clamp type.

Cable Type	Cat. No.
RG-59 & 62	32-3125-BU
RG-58	32-3124-BU



"N" Chassis Mount

"N" female chassis mount.

Cat. No. 33-1525-BU



"N" Adapters

"N" double male.

Cat. No. 33-1515



"N" double female.
Cat. No. 33-1520



"N" male to "F" female
Cat. No. 33-1565



"N" male to double "N" female
Cat. No. 33-1536



Right Angle "N" double male
Cat. No. 33-1534



Right Angle "N" male to female
Cat. No. 33-1535



"N" Terminators
"N" male terminator, 50 Ohm
Cat. No. 33-1537



"N" female terminator, 50 Ohm
Cat. No. 33-1538



UHF Connectors
Male crimp-on.

Cable Type	Cat. No.
RG-58	33-540
RG-59 & 62	33-541



Male twist-on, teflon insulator solder center pin.

Cable Type	Cat. No.
RG-8, 11, 213, 214	33-550-BU



Male crimp-on, reducer.

Cable Type	Cat. No.
RG-58	33-505-BU
RG-59 & 62	33-507-BU



UHF Chassis Mount
UHF female to UHF female, panel mount.
Cat. No. 33-502-BU



UHF Adapters
UHF double female.
Cat. No. 33-509



UHF double male.
Cat. No. 33-510



UHF three female.
Cat. No. 33-501



Right Angle UHF male to female.
Cat. No. 32-3161



UHF male to double UHF female.
Cat. No. 33-500



UHF male to "N" female.
Cat. No. 32-3126-BU



UHF male to RCA female.
Cat. No. 32-3107



UHF male to TNC female.
Cat. No. 32-3127-BU



Mini UHF Connectors

Male twist-on, solderless.

Cable Type	Cat. No.
RG-58	33-850



Male crimp-on, three piece construction.

Cable Type	Cat. No.
RG-58	33-860-BU



Mini UHF Adapters

Mini UHF double female.

Cat. No. 33-861



Mini UHF three female.

Cat. No. 33-847



Mini UHF male to double female.

Cat. No. 33-846



Right Angle Mini UHF male to female.

Cat. No. 33-844



Mini UHF male to BNC female.

Cat. No. 33-862-BU



Mini UHF female to BNC male.

Cat. No. 33-841-BU



Mini UHF male to TNC female.
Cat. No. 33-863-BU



Mini UHF female to TNC male.
Cat. No. 33-842-BU



Mini UHF male to UHF female.
Cat. No. 33-840-BU



Mini UHF female to UHF male.
Cat. No. 33-843-BU



TNC Connectors

Male crimp-on, three piece construction.

Cable Type	Cat. No.
RG-58	33-1261
RG-59 & 62	33-1260
RG-174	33-1265



Male twist-on.

Cable Type	Cat. No.
RG-59 & 62	33-1200
RG-58/U	33-1249



Female twist-on.

Cable Type	Cat. No.
RG-58	33-1248
RG-59 & 62	33-1201



Push-on crimp.

Cable Type	Cat. No.
RG-58	33-1210-BU



TNC Adapters

TNC double female.

Cat. No. 33-1207



TNC male to BNC female.

Cat. No. 33-1208-BU





TNC male to UHF female.
Cat. No. 33-1209



TNC Terminators
TNC male terminator, 50 ohm
Cat. No. 33-1212-BU
TNC male terminator, 75 ohm
Cat. No. 33-1213-BU



Twin-Ax Connectors
Twin-ax male compression.
Cat. No. 33-1300-BU
Gold Pins
Cat. No. 33-1302-BU



Twin-Ax Adapters
Twin-ax double female.
Cat. No. 33-1304



Twin-ax three female.
Cat. No. 33-1305



Right Angle Twinax male to female.
Cat. No. 33-1306



Twin-Ax Terminators
Twin-ax male terminator, 50 ohm
Cat. No. 33-1309-BU
Twin-ax male terminator, 75 ohm
Cat. No. 33-1310-BU



RCA Adapters
RCA male to UHF female.
Cat. No. 32-3113-BU



RCA female to 3.5 mm male
Cat. No. 30-495



SMA Connectors
Male crimp type
Cat. No. 33-1311-BU



SMA Adapters
SMA double female.
Cat. No. 33-1312



SMA male to BNC female.
Cat. No. 33-1313-BU



SMA female to BNC female.
Cat. No. 33-1315-BU



SMA male to UHF male.
Cat. No. 33-1314



SMA female to UHF male.
Cat. No. 33-1320



SMA female to Mini UHF male.
Cat. No. 33-1316



SMA female to Mini UHF female.
Cat. No. 33-1317



SMA female to N male.
Cat. No. 33-1318-BU



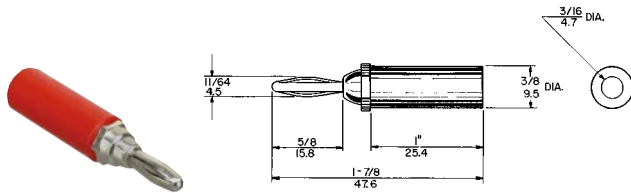
SMA female to TNC female.
Cat. No. 33-1319



Antenna Plug
Standard "Motorola" type shielded pin plug.
For auto, radio, test and CB equipment.
Cat. No. 26-804-BU

PLUGS & JACKS

Banana Plugs



Specifications:

Rating: 15 amps AC for 10°C temperature rise continuous duty
Handle: Molded nylon, per MIL-P-20693A
Body: Hex brass
Connection: Internal brass stud for solder or solderless type
Tip: Four leaved, phosphor bronze, nickel plated spring

Red

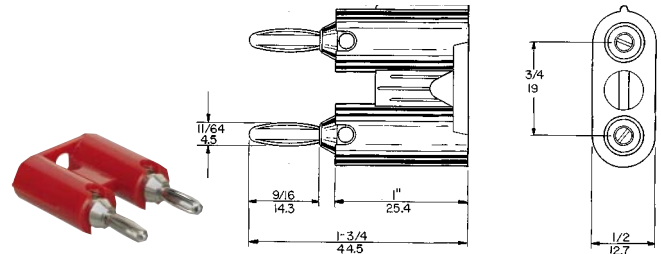
Cat. No. 33-000-BU

N.S.N. 5935-00-079-3892

Black

Cat. No. 33-002-BU

N.S.N. 5935-00-949-0104



Specifications:

Rating: 15 amps AC for 10°C temperature rise, continuous duty. 5k volts 60 cycle AC continuous working voltage. Capacitance 1.0 pf between conductors.
Handle: Black polystyrene plastic
Body: Nickel plated brass
Connection: Screw
Tip: Four leaved, phosphor bronze, nickel plated spring
Description: Mates with standard dual binding posts with 3/4" centers and can be stacked for multiple connections. Polarity is indicated by rib.

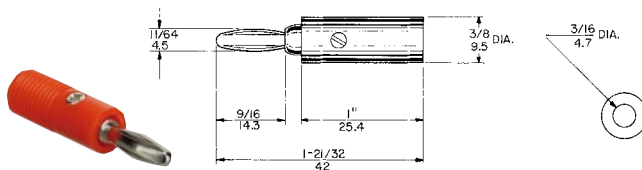
Black

Cat. No. 33-010-BU

N.S.N. 5935-00-079-7348

Red

Cat. No. 33-011-BU



Specifications:

Rating: 15 amps AC for 10°C temperature rise, continuous duty
Handle: Molded nylon, per MIL-P-20693A
Body: Brass
Connection: Screw
Tip: Four leaved, phosphor bronze, nickel plated spring

Red

Cat. No. 33-006-BU

N.S.N. 5935-00-583-2715

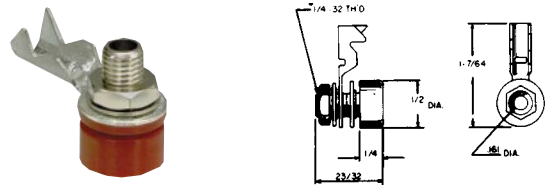
Black

Cat. No. 33-008-BU

Slide Screw Connection

Cat. No. 30-1004

Heavy-Duty Banana Jack



Specifications:

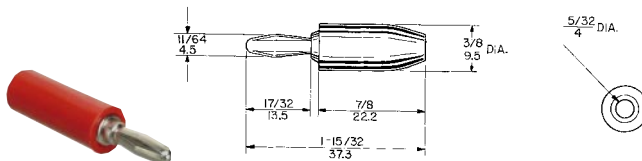
Rating: 15 amps AC for 10°C temperature rise, continuous duty. 750 volts 60-cycle AC continuous working voltage. Capacitance 4.0 mmfd.
Head: Molded plastic per MIL-P-14 CFG
Description: Nickel-plated brass body; supplied with extruded fibre washer (to insulate from metal panels), lock washer, heavy-duty solder lug and mounting nut. Metal jack is recessed in insulated head to provide shock-proof design. Exclusive hex design prevents turning in assembly.

Red

Cat. No. 33-186-BU

Black

Cat. No. 33-188-BU



Specifications:

Rating: 15 amps AC for 10°C temperature rise, continuous duty
Handle: Molded nylon, per MIL-P-20693A
Body: Hex brass
Connection: Internal stud for solder or solderless type.
Tip: Four leaved, phosphor bronze, nickel plated spring

Red

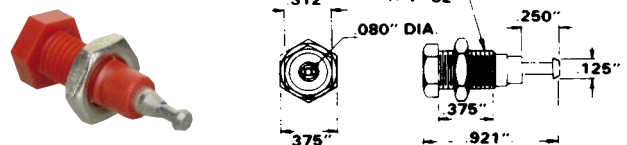
Cat. No. 33-032-BU

N.S.N. 5935-00-925-0341

Black

Cat. No. 33-033-BU

Nylon Tip Jack (Wrap Around Type)



Specifications:

Salt Spray Test: 100 hours
Insulation Resistance: 5000 megohms
Rated Voltage & Current: 1000 volts peak at 5 amp max.
Nominal Capacity: 55° to 150° C
Test Voltage: 2.0 pf
Body: 9000 volts DC peak
Contact: Nylon, per MIL-P-20693A
Description: Silver plated beryllium copper. Supplied with hex nut. Contacts recessed in head. Fits all standard phone tip plugs. Mounts in 1/4" hole in panels up to 1/4" thick.

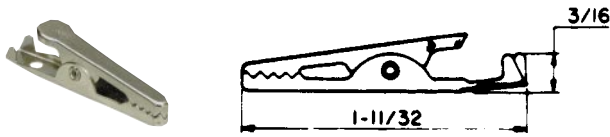
Black

Cat. No. 33-240-BU

Red

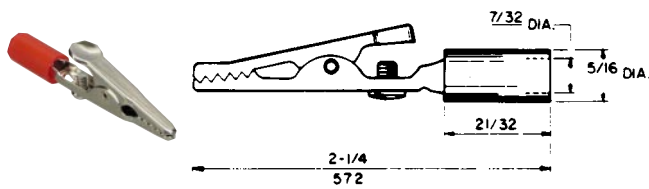
Cat. No. 33-242-BU

Miniature Alligator Clip



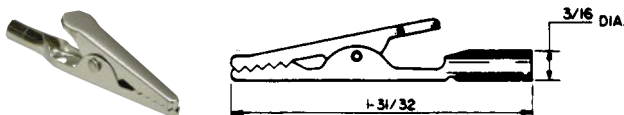
Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty
Body: Nickel plated steel. 1/2" (12.700mm) jaw opening
Connection: Solder type
Cat. No. 33-077-BU
 N.S.N. 5999-00-060-8996

Alligator Clip



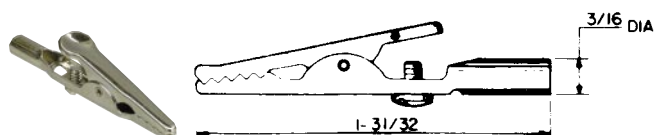
Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty
Handle: Vinyl sleeve
Body: Nickel plated steel. 5/16" (7.938mm) jaw opening
Connection: Screw or solder type
 Red
Cat. No. 33-075-BU
 N.S.N. 5999-00-880-5534
 Black
Cat. No. 33-076-BU
 N.S.N. 5999-00-235-0214

Alligator Clip



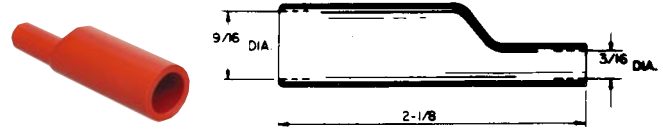
Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty
Body: Nickel plated steel, 3/8" (9.525mm) jaw opening
Connection: Accepts banana plug or wire may be soldered to clip.
Cat. No. 33-078-BU

Alligator Clip



Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty
Body: Nickel plated steel or solid copper, 3/8" (9.525mm) jaw opening
Connection: Screw type. Also accepts banana plug.
 Steel
Cat. No. 33-079-BU
 Copper
Cat. No. 33-080-BU

Alligator Clip Insulator



Flexible, molded vinyl insulator. Fits all standard size alligator clips. Insulates completely while permitting maximum jaw opening.
 Red
Cat. No. 33-081-BU
 Black
Cat. No. 33-082-BU

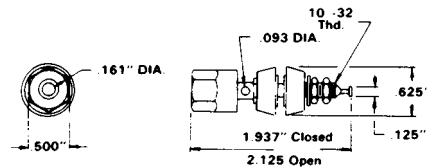
BINDING POSTS

BNC Male Dual Binding Post



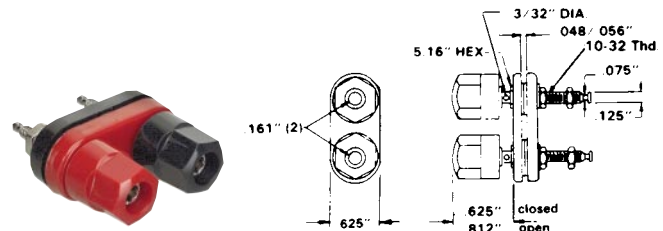
UPPER: BNC Male, gold plated center contact. Nickel plated brass body.
LOWER: .750" Spaced dual binding post. 164" Diameter holes in body for side stackable connection.
Cat. No. 33-1192

Heavy Duty Binding Post



Specifications:
Rating: 30 amps AC for 10°C temperature rise, continuous duty. 2 k volts 60-cycle AC continuous working voltage. Capacitance 5.0 pf.
Head and Washer: Molded nylon, per MIL-P-20693A
Body: Nickel plated brass
Description: Supplied with molded plastic insulating spacer with "D" shaped shoulder that keys into chassis mounting hole to prevent post from turning. Mounts in 1/2" hole in panels up to 1/4" thick. Accepts banana or tip plug, alligator clip or bare wire.
 Red
Cat. No. 33-278-BU
 Black
Cat. No. 33-280-BU

Dual Binding Posts

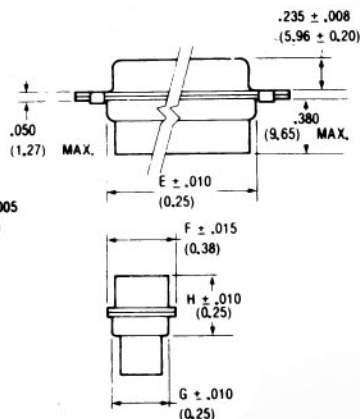
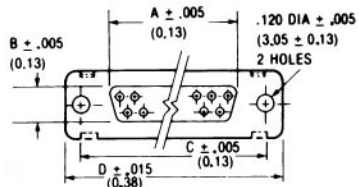


Specifications:
Rating: 15 amps AC for 10°C temperature rise, continuous duty. 2 k volts 60-cycle AC continuous working voltage. Capacitance 2.0 pf between conductors, 3.0 pf to panel
Head: Molded nylon, per MIL-P-20693A
Body: Nickel plated brass
Description: Supplied with molded styrene washer. Mounts in two 1/2" holes on 3/4" centers in panels up to 1/4" thick. Accepts single or dual banana plugs.
Cat. No. 33-292-BU

CONNECTORS



41-1040



D-Subminiature Crimp Removable Connectors

Features:

- Available in all standard contact configurations including 9, 15, 25, 37 and 50.
- Designed to comply with most industry standards such as EIA RS-232C, EIA RS-449, IEEE Project 802.
- Listed separately in this section are solder cup type D-subminiature and back shells (hood kits) with hardware.
- Rear release snap-in contact design provides (max.) field service economy.

Specifications:

Contact Rating: 7.5 amperes (max.)

Contact Resistance: 5m (max.) initial 10m (max.) after environmental testing

Dielectric Withstand Voltage: 1000V AC RMS (min.) at sea level

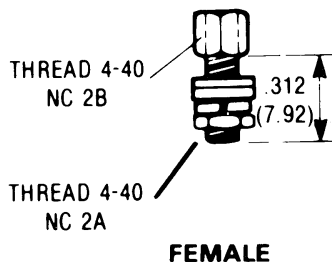
Insulation Resistance: 5000 Meg (min.)

Operating Temperature: -55°C to +105°C

Wire Sizes: #20 to #24 AWG

Male Cat. No.	No. Of Pins	Contact Postions	A	B	C	D	E	F	G	H
41-1040-BU	9	9	.666 (16.92)	.329 (8.36)	.984 (24.99)	1.218 (30.94)	.758 (19.25)	.500 (12.70)	.422 (10.72)	.422 (10.72)
41-1041-BU	15	15	.994 (25.25)	.329 (8.36)	1.312 (33.32)	1.546 (39.27)	1.082 (27.48)	.500 (12.70)	.422 (10.72)	.422 (10.72)
41.1042-BU	20	25	1.534 (38.96)	.329 (8.36)	1.852 (47.04)	2.088 (53.04)	1.624 (41.25)	.500 (12.70)	.422 (10.72)	.426 (10.82)
41.1044-BU	40	50	2.0888 (53.03)	.441 (11.20)	2.406 (61.11)	2.640 (67.06)	2.117 (55.30)	.612 (15.54)	.534 (13.56)	.426 (10.82)
41-1045-100	25	100	Male Contact Pins							

Female Cat. No.	No. Of Pins	Contact Postions	A	B	C	D	E	F	G	H	
41-1050-BU	9	9	.643 (16.33)	.311 (7.90)	.984 (24.99)	1.218 (30.94)	.758 (19.25)	.500 (12.70)	.422 (10.72)	.429 (10.90)	
41-1051-BU	15	15	.971 (24.66)	.311 (7.90)	1.312 (33.32)	1.546 (39.27)	1.082 (27.48)	.500 (12.70)	.422 (10.72)	.429 (10.90)	
41-1052-BU	20	25	1.511 (38.38)	.311 (7.90)	1.852 (47.04)	2.088 (53.04)	1.624 (41.25)	.500 (12.70)	.422 (10.72)	.429 (10.90)	
41-1053-BU	30	37	2.159 (54.84)	.311 (7.90)	2.500 (63.50)	2.734 (69.44)	2.271 (57.68)	.500 (12.70)	.422 (10.72)	.429 (10.90)	
41-1054-BU	40	50	2.064 (52.43)	.4223 (10.74)	2.406 (61.11)	2.640 (67.06)	2.177 (55.30)	.612 (15.54)	.534 (13.56)	.429 (10.90)	
41-1055-100	25	100	Female Contact Pins								In. (mm)



Screw Lock Assemblies

Note: Each kit contains hardware for one connector.

Specifications:

Material: Steel

Finish: Cadmium plate, yellow chromate

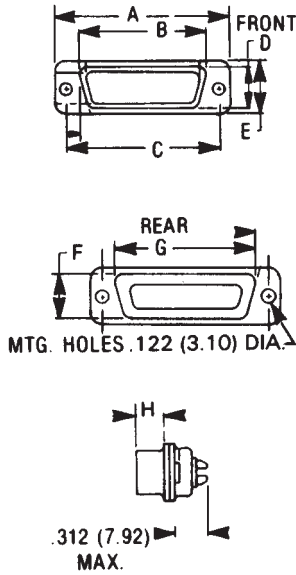
Corrosion Resistance: Passes 50-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B

Female

Cat. No. 41-1032-BU

Hex Nuts

Cat. No. 41-1033-100



D-Subminiature Connectors

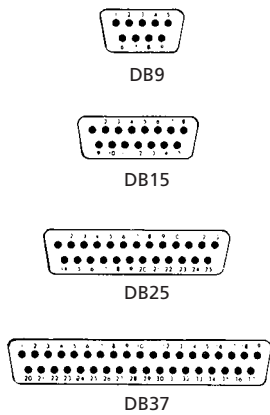
Designed primarily for applications where space and weight are of major importance. All connectors are gold-plated and accommodate a large number of circuits in proportion to their size. They are adaptable for use in cabling applications by the addition of accessories and integral clamps. Connectors are mateable with MIL-C-24308 connectors. These numbers have product packaged 1 to a card. Solder cup types, back shells (hoods) are available separately.

Specifications:

- Contact Rating: 5 amperes
- Wire Sizes: #20 AWG (max.)
- Contact Resistance: 10 mΩ (max.)
- Temperature Range: -55°C to +105°C
- Insulation Resistance: 5000 MegΩ (min.)
- Dielectric Withstanding Voltage: 1250V AC at sea level
- Insulator Material: Two-piece Nylon UL, Rated 94V-0
- Shell Material and Finish: Zinc Plated
- Contact Pin Material: Brass
- Contact Socket Material: Phosphor Bronze
- Contact Pin and Socket Finish : Gold over Nickel Plate
- Dimension: In. (mm)

Solder Cup Type

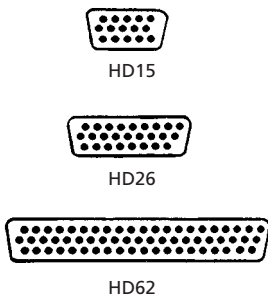
Standard Configuration



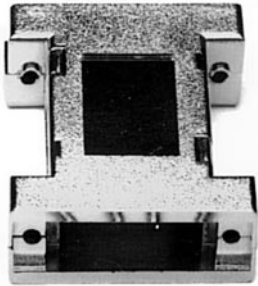
A	B	C	D	E	F	G	H	Cat. No.
1.213 (30.8)	.697 (17.7)	.984 (25)	.359 (9.14)	.496 (12.6)	.422 (10.72)	.759 (19.3)	.370 (6)	(Pin) 41-1111-BU
1.231 (30.8)	.640 (16.26)	.984 (25)	.308 (7.82)	.496 (12.6)	.422 (10.72)	.759 (19.3)	.370 (6.2)	(Socket) 41-2111-BU
1.539 (39.1)	1.025 (26.04)	1.311 (33.3)	.359 (9.14)	.496 (12.6)	.422 (10.72)	1.083 (27.5)	.236 (6)	(Pin) 41-1211-BU
1.539 (39.1)	.969 (24.6)	1.311 (33.3)	.308 (7.82)	.496 (12.6)	.422 (10.72)	1.083 (27.5)	.244 (6.2)	(Socket) 41-2211-BU
2.087 (53)	1.583 (40.21)	1.850 (47)	.378 (9.6)	.496 (12.6)	.422 (10.72)	1.626 (41.3)	.236 (6)	(Pin) 41-1311-BU
2.087 (53)	1.508 (38.3)	1.850 (47)	.308 (7.82)	.496 (12.6)	.422 (10.72)	1.626 (41.3)	.244 (6.2)	(Socket) 41-2311-BU
2.728 (69.3)	2.156 (54.76)	2.500 (63.5)	.308 (7.82)	.496 (12.6)	.422 (10.72)	2.272 (57.7)	.244 (6.2)	(Socket) 41-2411-BU

Hi-Density

Hi-Density Configuration



A	B	C	D	E	F	G	H	Cat. No.
1.213 (30.8)	.697 (17.7)	.984 (25)	.359 (9.14)	.496 (12.6)	.422 (10.72)	1.083 (27.5)	.236 (6)	(Pin) 41-2115-BU
1.213 (30.8)	.640 (16.26)	.984 (25)	.308 (7.82)	.496 (12.6)	.422 (10.72)	.759 (19.3)	.244 (6.2)	(Socket) 41-2116-BU
1.539 (39.1)	1.025 (26.04)	1.311 (33.3)	.359 (9.14)	.496 (12.6)	.422 (10.72)	1.083 (27.5)	.236 (6)	(Pin) 41-2124-BU
2.728 (69.3)	2.231 (56.67)	2.500 (63.5)	.378 (9.6)	.496 (12.6)	.422 (10.72)	2.272 (57.7)	.370 (2.4)	(Pin) 41-2142-BU



DB and Centronics Shielded "Double Shells" (Adapter Hood Kits)

Snap together kits allow assembly of adapters for mating equipment with unconventionally wired connectors. These double-shells are provided with hardware but not with connectors. User may use either male or female connectors. (All connectors are available in both genders elsewhere in this section).

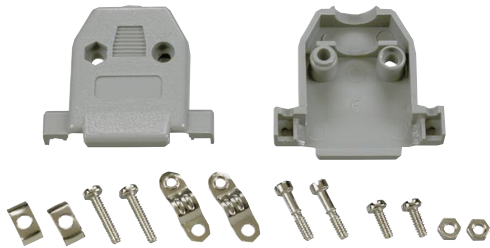
Double-shells are made of molded plastic with a chrome plating inside and out for shielding. Standardization of connectors permits use with nearly any make of connector. Ideal for making both adapters or assembling surge arrestors using MOV's.

DB25 Each End
Cat. No. 41-2925-BU

DB25 to Centronics 36 Pin
Cat. No. 41-2932-BU

DB9 to DB25
Cat. No. 41-2927-BU

DB9 to DB9
Cat. No. 41-2909-BU



Subminiature "D" Hood Kits

Hood Kits fit both solder-type and loose-pin style Subminiature "D" Connectors. Several types are available as follows; all include assembly hardware.

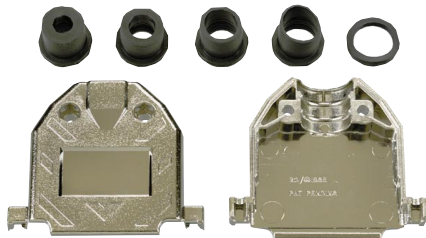
- Plain plastic hoods, most economical type.
- ABS Plastic Multifit™ hoods — Extremely tough case material, includes strain relief and mounting hardware.
- Metallized Multifit™ hoods — Chrome plated for excellent shielding characteristics; ABS plastic is very durable. Includes five sizes of strain relief grommets for use with all common cable sizes. Exceeds FCC requirements.
- Metal hoods — Die cast zinc hoods for use where (max.) durability plus shielding are required.

Plain Plastic
9 Pin
Cat. No. 41-1000-BU

15 Pin
Cat. No. 41-1001-BU

25 Pin
Cat. No. 41-1002-BU

ABS Plastic Multifit™
25 Pin
Cat. No. 41-2704-BU



Metallized (shielded) ABS Plastic Multifit™
9 Pin
Cat. No. 41-2720-BU

25 Pin
Cat. No. 41-2724-BU

37 Pin
Cat. No. 41-2726-BU



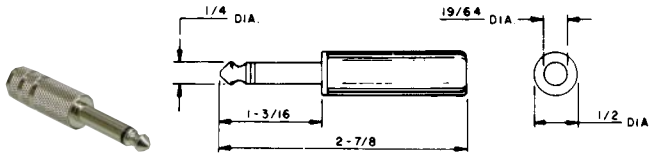
Die-Cast Metal Hoods
9 Pin
Cat. No. 41-2730-BU

15 Pin
Cat. No. 41-2732-BU

25 Pin
Cat. No. 41-2734-BU

PHONE PLUGS AND JACKS

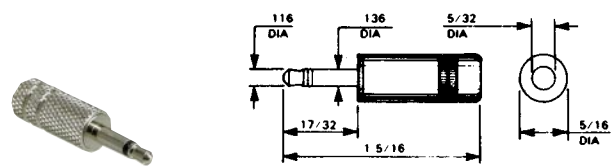
1/4" Two-Conductor Phone Plug



Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty. 750 volts, 60-cycle AC continuous working voltage
Handle: Molded plastic or nickel plated brass
Connection: Screw type
Overall Length: 2-3/4" (69.9 mm)

Black
Cat. No. 33-085-BU
 Metal
Cat. No. 33-086-BU

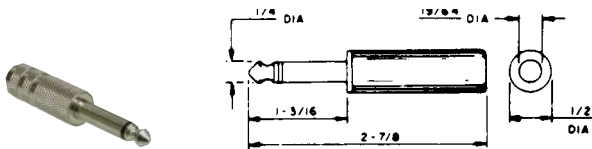
3.5 mm Miniature Two-Conductor Phone Plug



Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty. Tested for 500 Vmil. break down
Handle: Molded Plastic
Connection: Combination clamp and solder terminals
 Metal-brass handle

Cat. No. 33-092-BU
 Black
Cat. No. 33-093-BU
 N.S.N. 5935-00-609-3014

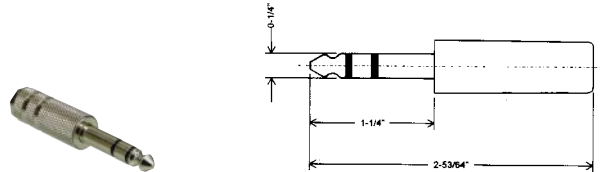
1/4" Two-Conductor Phone Plug



Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty
Handle: Molded plastic
Connection: Solder type. Has "grounding" terminal which clamps around cable insulation or shield; acts as strain relief

Black—Import
Cat. No. 33-087-BU
 Metal-brass-handle—Import
Cat. No. 33-088-BU

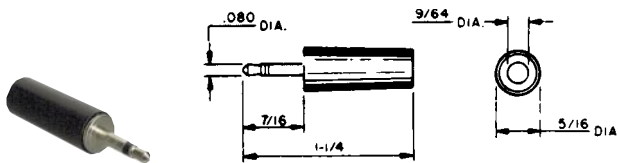
Three-Conductor Phone Plug



Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty
Handle: Molded plastic or nickel plated brass
Connection: Combination clamp and solder lug type

Length 2-53/64" Black
Cat. No. 33-089-BU
 Length 2-1/2" Metal
Cat. No. 33-090-BU

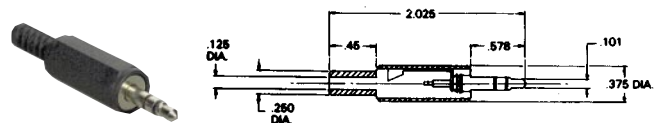
Sub-Miniature Two-Conductor Phone Plug



Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty. 750 volts 60 cycle AC continuous working voltage.
Handle: Molded plastic or nickel plated brass
Connection: Solder lug type.

Black
Cat. No. 33-091-BU

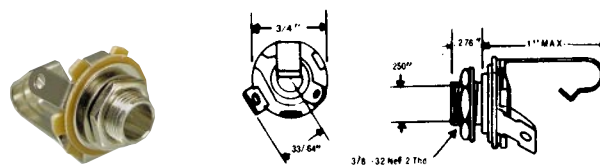
3.5 mm Miniature Three-Conductor Phone Plug



Specifications:
Rating: 5 amps AC for 10°C temperature rise, continuous duty
Handle: Molded plastic
Connection: Solder lug type

Cat. No. 33-665-BU

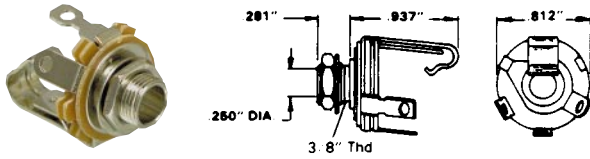
Panel Mounting Two-Conductor Phone Jack



Specifications:
Rating: 10 amps AC for 10°C temperature rise, continuous duty. 1.2 k V 60-cycle AC continuous working voltage
Type: Open circuit, 2 conductor

Cat. No. 33-096-BU
 N.S.N. 5935-01-028-1721

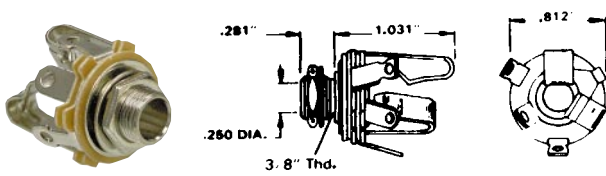
1/4" Panel Mounting Two-Conductor Phone Jack



Specifications:

Rating: 10 amps AC for 10°C temperature rise, continuous duty
Type: Closed circuit, 2-conductor panel mounting
Spring: Nickel silver
Mounting Bushing: Nickel plated brass, mounts in 3/8" hole
Cat. No. 33-097-BU

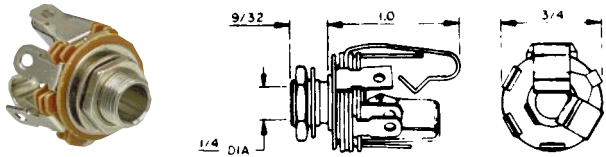
1/4" Panel Mounting Three-Conductor Phone Jack



Specifications:

Rating: 10 amps AC for 10°C temperature rise, continuous duty
Type: Open circuit, 3 conductor, panel mounting
Spring: Nickel silver
Mounting Bushing: Nickel plated brass, mounts in 3/8" hole
Cat. No. 33-098-BU

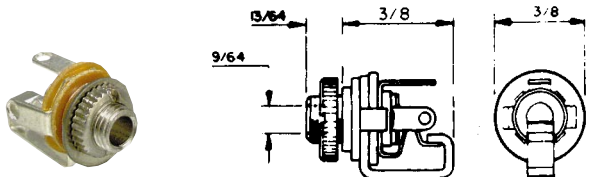
1/4" Panel Mounting Three-Conductor Phone Jack



Specifications:

Rating: 10 amps AC for 10°C temperature rise, continuous duty
Type: Single closed circuit, 3-conductor
Spring: Nickel silver
Mounting Bushing: Nickel plated brass
Cat. No. 33-099-BU

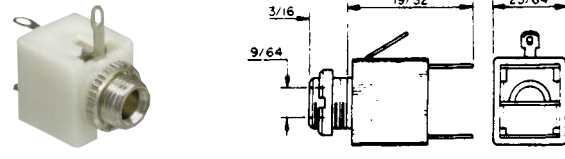
2.5 mm Sub-Miniature Two-Conductor Phone Jack



Specifications:

Rating: 5 amps AC for 10°C temperature rise, continuous duty. 750 volts 60 cycle AC continuous working voltage
Type: Closed circuit, panel mounting
Spring: Nickel silver
Mounting Bushing: Nickel plated brass, mounts in 1/4" (6.350 mm) hole.
Cat. No. 33-103-BU

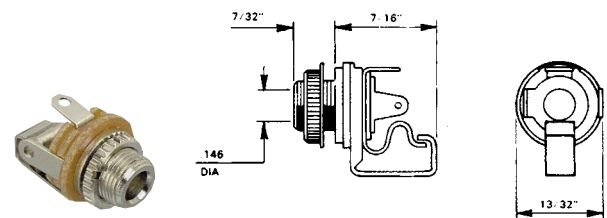
3.5 mm Miniature Two-Conductor Phone Jack



Specifications:

Rating: 5 amps AC for 10°C temperature rise, continuous duty. 1.2 k volts 60 cycle AC continuous working voltage
Type: Closed circuit, molded panel mounting
Spring: Nickel silver
Mounting Bushing: Nickel plated brass, mounts in 1/4" (6.350 mm) hole.
Cat. No. 33-101-BU

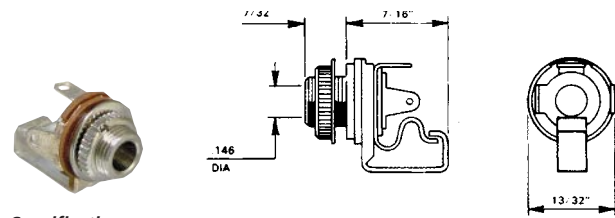
3.5 mm Miniature Two-Conductor Phone Jack



Specifications:

Rating: 5 amps AC for 10°C temperature rise, continuous duty, 500 volts 60 cycle AC continuous working voltage
Type: Open circuit, panel mounting
Spring: Nickel silver
Mounting Bushing: Nickel plated brass, mounts in 1/4" (6.350 mm) hole.
Cat. No. 33-102-BU

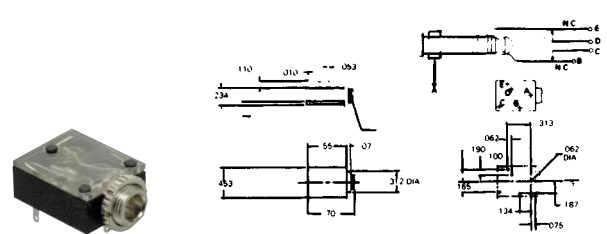
3.5 mm Miniature Panel Mount Jack



Specifications:

Rating: 5 amps AC for 10°C temperature rise, continuous duty
Type: Closed circuit, 2-conductor, panel mounting
Spring: Nickel silver
Mounting Bushing: Nickel plated brass. 33-104-BU mounts in 5/16" (7.938 mm) hole.
Cat. No. 33-104-BU

3.5 mm Miniature Three-Conductor Phone Jack

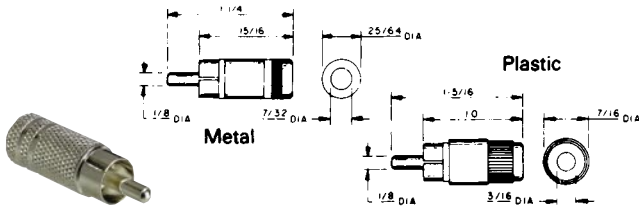


Specifications:

Rating: 5 amps AC for 10°C temperature rise, continuous duty
Type: Normally closed circuit
Spring: Nickel silver
Mounting Bushing: Nickel plated brass with knurled nut, mounts in 1/4" hole or may be AC mounted.
Cat. No. 33-724-BU

PHONO PIN PLUGS AND JACKS

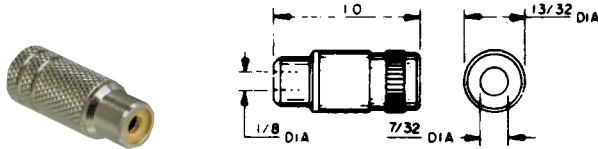
Phono Pin Plug



Specifications:
Pin: RCA type. Nickel plated brass
Shell: Cadmium plated brass
Handle: Molded plastic or nickel plated brass
Terminals: Combination clamp and solder type
Description: Easier to attach than standard phono pin plug. Provides "finished" appearance

- Metal
Cat. No. 33-133-BU
- Black Plastic
Cat. No. 33-131-BU
- Red Plastic
Cat. No. 33-132-BU

Phono Pin Jack

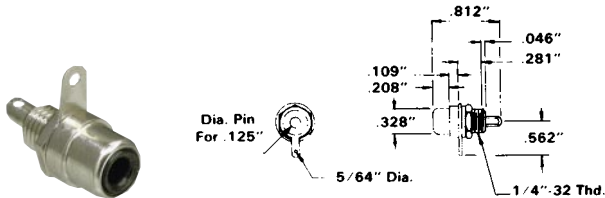


Specifications:
Type: RCA type. Cord mounting
Contacts: Cadmium plated brass
Handle: Molded plastic or nickel plated brass
Terminals: Combination clamp and solder type
Description: Also known as "extension" or "in-line" jack

- Metal
Cat. No. 33-134-BU

N.S.N. 5935-00-023-5360

Single Hole Panel Phono Jack



Specifications:
Body: Nickel plated brass
Contacts: Brass alloy
Insulator: Phenolic
Washer: Phenolic
Max. Panel Thickness: 5/32"
Description: Mounts in 9/32" hole
Cat. No. 33-135-BU

2 Position Pushbutton Terminal Board



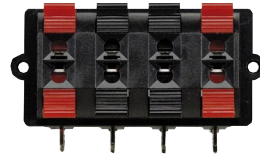
This terminal board mounts on most speaker cabinets, for easy wire connection. Red and black posts. Mounts in 2" hole, 2-7/16" mounting centers.
Cat. No. 33-1402

4 Position Pushbutton Terminals



These terminals have spring loaded posts for easy connection with two red and two black. These are perfect for various audio applications, such as speaker connections, and amplifiers. 2-3/4" x 3/4" x 1-5/16", mounting centers 2-5/16".
Cat. No. 33-1404

8 Position Pushbutton Terminals



These terminals have eight connecting posts, four red, and four black. The posts are spring loaded for easy connection. These terminals are designed for several audio applications, such as surround sound units, amplifiers, and speaker connections. 2-1/2" x 5/8" x 1-3/16", mounting centers 2-1/4".
Cat. No. 33-1408

BNC Female to Dual Banana Plug



UPPER: BNC Female, gold plated center contact. Nickel plated brass body.
LOWER: .750" Spaced dual banana plug. Brass body, beryllium copper nine piece leaf spring, nickel plated.
 164" Diameter holes in body for side stackable connection
Cat. No. 33-1191

Banana Plugs



With internal stud for solderless connection. Pkg. of one each red and black plastic handle.
 Bulk Pack of Ten—Black
Cat. No. 33-013-BU
 Bulk Pack of Ten—Red
Cat. No. 33-015-BU

PowerFlex™ Audio Connectors

Power Flex connectors are available in four popular styles. These connectors will provide the best possible connection between your speakers and audio/video equipment. Gold plated solid brass construction provides ultra low resistance and prevents deterioration of contact surfaces. For use with Power Flex™ speaker cable or any other wire not exceeding 10 gauge.



Gold compression (solderless) spade lugs.

(pkg. of 2)

Cat. No. 30-1200

Gold crimp or solder spade lugs.

(pkg. of 2)

Cat. No. 30-1203

Gold crimp or solder flexible pin plugs. Color coded insulators.

(pkg. of 4)

Cat. No. 30-1204

Gold compression (solderless) pin plugs.

(pkg. of 2)

Cat. No. 30-1205

Gold crimp or solder banana plugs. Color coded insulators.

(pkg. of 2)

Cat. No. 30-1208

Gold compression (solderless) banana plugs.

(pkg. of 2)

Cat. No. 30-1210



PowerFlex™ Audio Adapters

These adapters will provide the best possible connection between your cabling and audio/video equipment. Gold plated solid brass construction provides ultra low resistance and prevents deterioration of contact surfaces.

Gold RCA Jack to RCA Jack

Cat. No. 30-1212

Gold RCA Plug to RCA Plug

Cat. No. 30-1213

Gold RCA Plug to Dual RCA Jack

Cat. No. 30-1215

SuperLink™ Connectors

The SuperLink™ connectors use a light weight aluminum alloy connector shell to prevent oxidation and corrosion. 24 K gold plated phono pin plugs provide the best conductivity and maximum signal transfer available. Use with high performance interconnect cables. Available in three color codes, platinum, black, or red. Solder connections.

Platinum Pkg. of 2

Cat. No. 30-1230

Black Pkg. of 2

Cat. No. 30-1231

Red Pkg. of 2

Cat. No. 30-1232



AUDIO PLUGS



Std. 1/4" Phone Plugs – 2-Conductor

Shielded metal handle. Solder terminals.

Cat. No. 30-483-6

Shielded metal handle. Screw terminals.

Cat. No. 30-484-6

Shielded metal handle. Right angle type. Solder terminals.

Cat. No. 30-487

Black plastic handle. Solder terminals.

Cat. No. 30-483

Black plastic handle. Screw terminals.

Cat. No. 30-484

Red plastic handle. Solder terminals.

Cat. No. 30-483-1

Red plastic handle. Screw terminals.

Cat. No. 30-484-1



1/4" Stereo Phone Plugs – 3-Conductor

Shielded metal handle. Solder terminals.

Cat. No. 30-489-6

Shielded metal handle. Screw terminals.

Cat. No. 30-490

Black plastic handle. Solder terminals.

Cat. No. 30-489

Black plastic handle. Screw terminals.

Cat. No. 30-488

Miniature (3.5mm) Stereo Phone Plug

Black plastic handle. Solder terminals.

Cat. No. 30-572

Gold

Cat. No. 30-572-3

Pkg. of 10

Cat. No. 30-572-BU



Miniature (3.5mm) Phone Plugs

Shielded metal handle. Solder terminals.
Cat. No. 30-498-6
 Black plastic handle. Solder terminals.
Cat. No. 30-498-2
 Gold
Cat. No. 30-498-3



Subminiature (2.5mm) Phone Plugs

2.5mm subminiature 3-conductor phone plug.
 Pkg. of 2
Cat. No. 30-519



Phono Pin Plugs (RCA Style)

Package of 2 with shielded metal handle. Heavy duty. Solder terminals.
Cat. No. 30-534
 Gold
Cat. No. 30-534-3
 Pkg. of 10
Cat. No. 30-534-BU
 Pkg. of one each with red and black plastic handle. Right angle type. Solderless terminals.
Cat. No. 30-533



Power Supply Plugs

Fits power supply jacks on recorders, radios, dictating machines, calculators, etc. Pkg. of one each for the two standard pin diameters. 2.1mm and 2.5mm.
 Pkg. of 2 Standard Length, 10mm – approx. 3/8"
Cat. No. 30-475
 Pkg. of 2 Long Length, 14mm – approx. 9/16"
Cat. No. 30-476
 1.3mm DC power plug fits walkman-type cassettes. Molded thermoplastic body. Solder connections.
Cat. No. 30-480



Mike Connectors

Cannon Style." 3 pin male.
Cat. No. 30-1692
 Cannon Style." 3 pin female.
Cat. No. 30-1690
 Chassis/cabinet style. 3 pin female.
Cat. No. 30-1694

AUDIO JACKS



Std. 1/4" Phone Jacks – 2-Conductor

Chassis mounting. Closed circuit. .350" mtg. hole. Solder lugs.
Cat. No. 30-540-1
 Chassis mounting. Open circuit. .350" mtg. hole. Solder lugs.
Cat. No. 30-540
 Cord mounting. Open circuit. Black plastic handle. Solder terminals.
Cat. No. 30-548



1/4" Stereo Phone Jacks – 2-Conductor

Chassis mounting. Open circuit. 3/8" mtg. hole. Solder lugs.
Cat. No. 30-541
 Cord mounting. Open circuit. Heavy duty shielded metal handle. Solder terminals.
Cat. No. 30-542



3.5mm Miniature 3-Conductor Phone Jack

P.C. board mounted or panel-mounted (mounting nut furnished). Mates with all standard 3.5mm stereo plugs. Normally closed circuit.
Cat. No. 30-574



Miniature (3.5mm) Phone Jacks

Chassis mounting. Closed circuit. 1/4" mtg. hole. Solder lugs.
Cat. No. 30-546
 Cord mounting. Open circuit. Black plastic handle. Solder terminals.
Cat. No. 30-543-1
 Cord mounting. Open circuit. Solder connections. For stereo plugs.
Cat. No. 30-575



Phono Pin Jacks (RCA Style)

Cord mounting. Open circuit. Pkg. of 2 with shielded plastic handle. Solder terminals.
Cat. No. 30-536
 Dual chassis mounting. 1-1/2" long. Open circuit. 130" dia. holes on 1.770" centers. Solder type.
Cat. No. 30-537
 Chassis mounting. Open circuit. 1/4" mtg. hole. Solder lugs. Pkg. of 2.
Cat. No. 30-528



Chassis Mounting Jack

Gold plated chassis mounting RCA jack with grounding lug. Gold connections provide optimum performance in home and car installations.
Cat. No. 30-528-3

AUDIO ADAPTERS



Std. 1/4" Phone Plug One End

Std. 1/4" phone plug (2 cond.) to miniature (3.5mm) phone jack.

Cat. No. 30-472-1

N.S.N. 5935-00-601-8693



Mini (3.5mm) stereo phone jack to 1/4" stereo phone plug (3 cond.). Permits use of headphones (with 3.5mm stereo plug) with units which have 1/4" stereo output jacks.

Cat. No. 30-1574



Gold plated 3.5mm stereo jack to 1/4" stereo plug. This adapter permits use of stereo headphones with a 3.5mm plug to be used on home entertainment systems with a 1/4" jack.

Gold

Cat. No. 30-1575



Standard 2-conductor 1/4" phone plug to RCA phono pin jack.

Cat. No. 30-472



Phono Pin (RCA Style) Plug One End

Phono pin plug to miniature (3.5mm) phone jack.

Cat. No. 30-473-1



Phono pin plug to std. 1/4" phone jack (2-conductor).

Cat. No. 30-473



Miniature (3.5mm) Plug One End

Miniature (3.5mm) phone plug to phono pin jack.

Cat. No. 30-495



1/4" stereo phone jack (3 cond.) to mini (3.5mm) stereo phone plug. Flexible cable prevents damage to equipment jacks. Permits use of headphones (with 1/4" stereo plug) with components with 3.5mm stereo output jacks."

Cat. No. 30-1576



Miniature (3.5mm) phone plug to std. 1/4" phone jack (2-conductor).

Cat. No. 30-496



Miniature (3.5mm) phone plug to 1/4" stereo phone jack (3conductor).

Cat. No. 30-1554



3.5mm stereo jack at one end; 3.5mm monaural plug at the other.

Cat. No. 30-1587



Subminiature (2.5mm) Phone Plug One End

Subminiature (2.5mm) phone plug to miniature (3.5mm) phone jack.

Cat. No. 30-478

AUDIO COUPLERS



Right Angle Adapter

Space limitations often require the use of a RCA male to RCA female right angle adapter. Gold plated connections for optimum performance in home or car installations.

Cat. No. 30-474



Stereo Coupler

3.5mm stereo jack to 3.5mm stereo jack. Used to extend 3.5mm stereo cables.

Cat. No. 30-1571



Audio Coupler

Phono pin jack to phono pin jack.

Cat. No. 30-470

Gold

Cat. No. 30-470-3

Pkg. of 10

Cat. No. 30-470-BU



Dual Coupler

Used to extend dual RCA audio cables. Gold plated for optimum performance in home and car installations.

Cat. No. 30-477



2-conductor standard 1/4" phone jack to 2-conductor standard 1/4" phone jack.

Cat. No. 30-1570



RCA Male Coupler

Male to male RCA coupler to connect two RCA jacks. Gold plated for optimum performance in home and car installations.

Cat. No. 30-469

AUDIO "Y" ADAPTERS

Phono Pin Plug & Jack Combinations



Phono pin plug to 2 phono pin jacks.

Cat. No. 30-510

Gold

Cat. No. 30-510-3

Pkg. of 10

Cat. No. 30-510-BU



Phono pin jack to 2 phono pin plugs.

Cat. No. 30-512

Gold

Cat. No. 30-512-3

Pkg. of 10

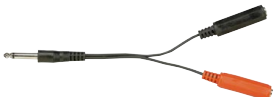
Cat. No. 30-512-BU



Phono pin plug to 2 phono pin plugs.

Cat. No. 30-514

1/4" Phone Plug & Jack Combinations



Standard 2-conductor 1/4" phone plug to 2 standard 2-conductor 1/4" phone jacks.

Cat. No. 30-522

3-conductor 1/4" stereo phone plug to 2-conductor standard 1/4" phone jacks.

Cat. No. 30-524

3-conductor 1/4" stereo phone plug to 2 3-conductor 1/4" stereo phone jacks.

Cat. No. 30-1560



Miniature (3.5mm) Plug & Jack Combinations

Miniature (3.5mm) phone plug to 2 miniature (3.5mm) phone jacks.

Cat. No. 30-1558

3.5mm mini stereo phone plug to two 3.5mm mini stereo phone jacks.

Cat. No. 30-1559

3.5mm stereo phone plug to two phono pin jacks.

Cat. No. 30-1565



Metal "Y" Adapters

Std. 1/4" phone plug (2-conductor) to 2 phono pin jacks.

Cat. No. 30-500

Phono pin plug to 2 phono pin jacks.

Cat. No. 30-504



Auto Antenna "Y" Connector

Allows hook up of an additional AM, FM, AM/FM radio or CB to car radio antenna. Motorola type plug and jack.

2 Plugs to 1 Jack

Cat. No. 30-3081



SPLITTERS



2-Way Hybrid Splitter With Built-In Grounding Block

Takes one 75 ohm input and splits it into two 75 ohm outputs. All terminals use "F" type connectors. Die cast body features cast-in grounding block and mounting tabs. Anti-corrosion plating and sealed case resist the elements.

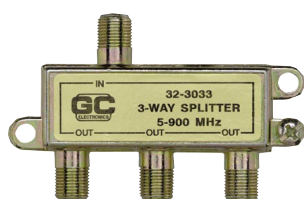
Cat. No. 32-3018

Gold

Cat. No. 32-3718

Miniature Version

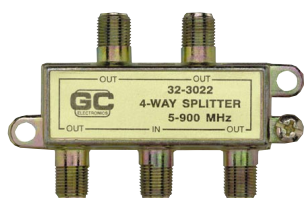
Cat. No. 32-2018-BU



3-Way Hybrid Splitter With Built-In Grounding Block

Takes one 75 ohm input and splits it into three 75 ohm outputs. All terminals use "F" type connectors. Die cast body features cast-in grounding screw and mounting tabs. Anti-corrosion plating and sealed case resist the elements.

Cat. No. 32-3033



4-Way Hybrid Splitter With Built-In Grounding Block

Takes one 75 ohm input and splits it into 2, 3 or 4 75 ohm outputs. All terminals use "F" type connectors. Die cast body features cast-in grounding block and mounting tabs. Anti-corrosion plating and sealed case resist the elements.

Cat. No. 32-3022

Gold

Cat. No. 32-3722



8-Way Splitter

From one input this splitter provides up to eight outputs. Built-in grounding block ensures easy installation. Excellent isolation is compatible with all applications.

Specifications:

Band Width: 5-1000 MHz

Return Loss: -24 dB at 600MHz

Isolation: -40 dB at 600 MHz

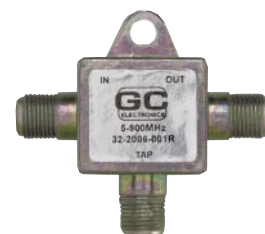
Cat. No. 32-3039-BU



UHF/VHF/FM Droptap

This 12 dB UHF/VHF/FM droptap provides a constant 75 ohm impedance. Includes nut & washer for wall plate mounting. Can be used as a coupler for coaxial connections.

Cat. No. 32-3183-BU



Miniature UHF/VHF/FM Droptap

These UHF/VHF/FM Droptaps provide a constant 75 ohm impedance.

6 dB

Cat. No. 32-2006

9 dB

Cat. No. 32-2009

12 dB

Cat. No. 32-2012

20 dB

Cat. No. 32-2020

DIN CONNECTORS



Inline Male

Silver plated contact pins provide better connections. All in-line models have a protective strain relief for longer life. These connectors are manufactured to DIN (Deutsch Industrie Norm) specifications.

Specifications:

Contact Rating: 2A 100V AC

Contact Resistance: 10mW Max.

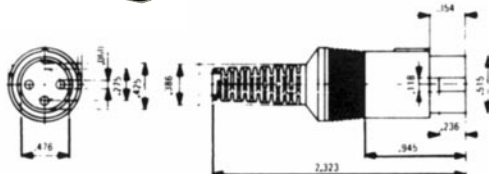
Insulation Resistance: 100 MegW @ 500V DC

Dielectric Withstand Voltage: 1000V RMS @ 50/60 Hz

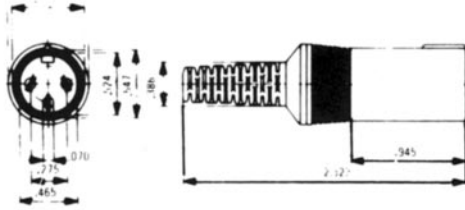
Insertion Force: 4.0 Kg. Max.

Withdrawal Force: 1.8 Kg. Min.

Contact Life: 5000 Cycles Min.



3 @ 180°	4 @ 210°	5 @ 180°	5 @ 240°	5 @ 360°	6 @ 240°	7 @ 270°	8 @ 270°
33-951-BU	33-952-BU	33-953-BU	33-954-BU	33-955-BU	33-956-BU	33-957-BU	33-958-BU



Inline Female

Silver plated contact pins provide better connections. All in-line models have a protective strain relief for longer life. These connectors are manufactured to DIN (Deutsch Industrie Norm) specifications.

Specifications:

- Contact Rating: 2A 100V AC
- Contact Resistance: 10mW Max.
- Insulation Resistance: 100 MegW @ 500V DC
- Dielectric Withstand Voltage: 1000V RMS @ 50/60 Hz
- Insertion Force: 4.0 Kg. Max.
- Withdrawal Force: 1.8 Kg. Min.
- Contact Life: 5000 Cycles Min.

3 @ 180°	5 @ 180°	6 @ 240°	7 @ 270°	8 @ 270°
33-961-BU	33-963-BU	33-966-BU	33-967-BU	33-968-BU



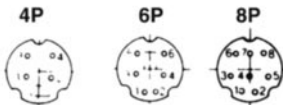
Mini Din Connectors

Silver plated contacts, pins and sockets, are used to provide a better connection. All models have a molded strain relief to prolong the life of the connector.

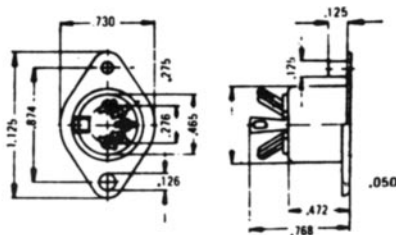
Specifications:

- Contact Rating: 2A 100V AC
- Contact Resistance: 10mW Max.
- Insulation Resistance: 100 MegW @ 500V DC
- Dielectric Withstand Voltage: 1000V RMS @ 50/60 Hz
- Insertion Force: 4.0 Kg. Max.
- Withdrawal Force: 1.8 Kg. Min.
- Contact Life: 5000 Cycles Min.

No. of Contacts
Contact Configuration



	4 @ 210°	6 @ 240°	8 @ 290°
Male	33-934-BU	33-936-BU	33-938
Female	33-944-BU		



Chassis Mount Receptacle

Silver plated contact pins provide better connections. All in-line models have a protective strain relief for longer life. These connectors are manufactured to DIN (Deutsch Industrie Norm) specifications.

Specifications:

- Contact Rating: 2A 100V AC
- Contact Resistance: 10mW Max.
- Insulation Resistance: 100 MegW @ 500V DC
- Dielectric Withstand Voltage: 1000V RMS @ 50/60 Hz
- Insertion Force: 4.0 Kg. Max.
- Withdrawal Force: 1.8 Kg. Min.
- Contact Life: 5000 Cycles Min.

3 @ 180°	4 @ 210°	5 @ 180°	5 @ 240°	5 @ 360°	6 @ 240°	7 @ 270°	8 @ 270°
33-971-BU	33-972-BU	33-973-BU	33-974-BU	33-975-BU	33-976-BU	33-977-BU	33-978-BU

ANTENNA ROTOR

Outdoor antennas are available through a partnership with Winegard. Call customer service for price and availability.



Antenna Rotor

Locks antenna or station signal for brighter, clearer TV and FM reception. Easily handles the largest residential outdoor TV antenna arrays. Automatic antenna control indicates position of antenna.

- Zinc diecast, weather sealed motor housing
- Maximum wind load area of 5 sq. ft.
- Brake withstands 1,440 inch oz. of torque
- 360° rotation in one minute
- Control 115V, 60 cycles, AC .7 amps
- Motor operates on 24V AC
- 22 Awg 3 conductor lead wire required

Cat. No. 32-9015

INDOOR TV ANTENNAS



Amplified VHF/UHF/FM Stereo Antenna

- Amplified circuitry for improved fringe performance
- Digital satellite design
- 7 Section VHF elements extend to 44" for maximum performance
- Switchable integrated auxiliary input for use with digital satellite or cable
- Built-in combiner circuit
- 75 Ohm 48" coaxial output cable
- Antenna fine tuning power control
- Power supply UL, CSA approved
- Color hang tab display carton

Cat. No. 32-373



VHF/UHF/FM Stereo Antenna

- Slim line design
- 4 Section VHF elements extend to 32"
- Clear image circuitry improves reception
- Built-in combiner circuit
- 75 Ohm 48" coaxial output cable
- 12 position fine tuning dial
- Color hang tab display carton

Cat. No. 32-371



Deluxe VHF/UHF/FM Stereo Antenna

- Digital satellite design
- 7 Section VHF elements extend to 44" for maximum performance
- Clear image circuitry improves reception
- Built-in combiner circuit
- 75 Ohm 48" coaxial output cable
- 12 position fine tuning dial
- Color hang tab display carton

Cat. No. 32-372



VHF/FM Stereo Antenna

- Low profile modern design
- 4 Section VHF elements extend to 36"
- 75 Ohm 39" coaxial output cable
- Color hang tab display carton

Cat. No. 32-370

**VHF/UHF/FM Stereo Antenna**

- 12 position fine tuning dial
- 4 section VHF elements extend to 30"
- High impact base with felt pad
- 300 Ohm output cable
- Hang tab poly bag

Cat. No. 32-302**VHF/FM Stereo Antenna**

- Timeless design
- 3 section VHF elements extend to 30"
- High impact base with felt pad
- 300 Ohm output cable
- Hang tab poly bag

Cat. No. 32-300**Back-of-Set Loop UHF Antenna**

Adjustable swivel attachment brackets for fastening to UHF terminals. Fits all TV sets. Constructed of heavy-duty plated wire.

Cat. No. 32-313**Butterfly "Snap-On" UHF Antenna**

Snaps securely on rabbit ear to improve UHF reception. Easy to adjust. Complete with lead wire, terminals.

Cat. No. 32-315**Replacement Antenna**

Replaces Panasonic, RCA and many other models. It comes complete with lead wires and terminals. 32" extended, 9" collapsed. 3 ft. leads.

Cat. No. 32-317**"Folded Dipole" Indoor FM Radio Antenna**

Improves FM and multiplex stereo reception. Just connect to terminals on radio and locate antenna behind set, along baseboard or under carpet. Installs in a few minutes.

Cat. No. 30-270

INSTALLATION HARDWARE



Combo Standoffs **VHF Standard Insulator**

Machine and woodscrew type. 10–20 thread.

3-1/2" long. Box of 100

Cat. No. 4027-C

5-1/2" long. Box of 100

Cat. No. 4028-C



Combo Standoffs **"B" Type Insulator**

Machine and woodscrew type. 10–20 thread.

3-1/2" long. Box of 100

Cat. No. 4027-BC

5-1/2" long. Box of 100

Cat. No. 4028-BC

Card of 4 No. 4027-BC

Cat. No. 32-050



9" Combo Strapping with **"T" Nut**

10–20 thread. Has extra deep T-Nut welded to strap. For use with Combo type standoffs.

Stainless Steel, Box of 100

Cat. No. 4050-NC



Nut Type Standoffs

10–32 thread. "B" type insulator. 9" stainless steel straps.

Card of 2

Cat. No. 32-048



Heavy Duty Snap-In **Chimney Mount**

Fits masts up to 1-1/2" diameter. Extra heavy gauge steel construction. Doubly protected against rust. Zinc plated and clear chromate dipped for long life. Chimney clearance

of 4". Simply "snap" mast into place and tighten bolts. Easy to handle. Complete with both heavy duty strap clamp and Speed-E-Strap clamp, strapping and necessary hardware. All strapping is 5/8" wide.

Stainless Steel Strapping—Heavy Duty Strap Clamp

Mount with 2-12 ft. lengths of strapping

Cat. No. 8610

Mount with 2-18 ft. lengths of strapping

Cat. No. 8610-L



Chimney "Z" Mount

Extra heavy gauge steel, zinc plated and clear chromate dipped for long life. Fits masts up to 1-1/2" diameter. Chimney clearance of 3". Complete with straps and necessary hardware. All strapping is 5/8" wide.

Stainless Steel Strapping—Heavy Duty Strap Clamp

Mount with 2-12 ft. lengths of strapping

Cat. No. 8005

Card of 1 No. 8005

Cat. No. 32-010

Mount with 2-18 ft. lengths of strapping

Cat. No. 8005-L

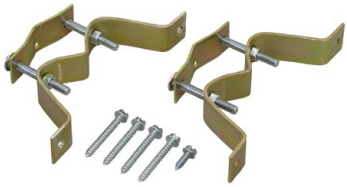


“Snap-In” Wall Mount

Made of extra heavy gauge steel, zinc plated and clear chromate dipped for double weather protection. Mounting hardware included. Mounting hole spaced 16" for fastening to studs.

Type	Clearance	For Masts	Cat. No.
Heavy Duty	6"	to 1-3/4"	8306
Heavy Duty	8"	to 1-3/4"	8308
Heavy Duty	12"	to 1-3/4"	8312#
Heavy Duty	18"	to 1-3/4"	8318#

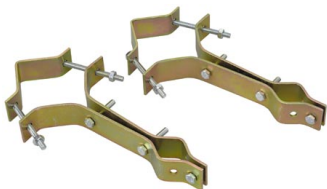
Brace Included



Wall Mount

Made of heavy gauge steel, zinc plated, clear chromate dipped for added weather protection. 2 brackets per set. All necessary hardware and assembly instructions are included.

Type	Pkg.	Clearance	For Masts	Cat. No.
Heavy Duty	Box of 1	2-1/2"	to 2-1/2"	8305
	Poly Bag of 1- No. 8305			8307
Economy	Carton of 1	3-1/4"	1-1/2"	9262
Medium Duty	Box of 1	4"	to 1-3/4"	8304
Med. to Hvy. Duty	Box of 1	6"	to 1-1/2"	9236
	Card of 1- No. 9236			32-004



Vent Mount

Easy-to-use mounts that quickly install on vents or pipes. Made of extra heavy gauge steel, zinc plated and clear chromate dipped for double weather protection. For masts up to 1-3/4" diameter.

Poly Bag of 1 For Vents 2" to 4"
Cat. No. 8802

Poly Bag of 1 For Vents 4" to 6"
Cat. No. 8803



Vent Clamp

For mounting TV antennas on vents up to 2-1/4" diameter. Made of extra heavy gauge steel, clear zinc plated. Accepts masts up to 1-1/4" diameter.

Box of 1
Cat. No. 8799



Pivot Swing Mount

Pivot swing-up mount for masts up to 1-1/4" diameter. Made of heavy gauge steel, zinc plated and clear chromate dipped for long life. Corrosion resistant. Mounts on either roof or wall.

Cat. No. 8622



Handy Mount

Inexpensive mount, designed for extra solid mounting support through an extra "leg" and reinforcing ribs. Zinc plated, clear chromate dipped for all-weather protection. Pre-assembled, will support masts up to 1-1/2" diameter.

Cat. No. 8800-U



Tar Pad Kit

Includes: Six 1/4" x 2" lag bolts and three 1" x 4" insulating sealant strips. For mounting antenna hardware to roofs and walls. Excellent for tower bases, wall mounts and mast mounts. Prevents water seepage.

Cat. No. 32-8197



**Steel Antenna Masts
Pewter Grey Coat Finish**

Rugged 1-1/4" diameter steel pipe with lock seams. Swaged end allows masts to be telescoped together for extra length.

5 ft., 18 gauge
Cat. No. 32-8972

5 ft., 16 gauge
Cat. No. 32-8975

10 ft., 16 gauge
Cat. No. 32-8976

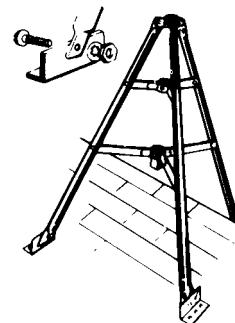


**Steel Antenna Masts
Galvanized Steel**

Rugged 1-1/4" diameter steel pipe with lock seams. Swaged end allows masts to be telescoped together for extra length.

5 ft., 22 gauge
Cat. No. 32-9013

10 ft., 16 gauge
Cat. No. 32-9014



Tri-Pod Tower Antenna Bases

Exclusive "swing-up" feature provides easy installation. Adjustable to any roof pitch. Fully assembled—ready to install. Accepts masts up to 1-3/4" diameter. Towers are tubular galvanized steel with extra heavy duty collars. Mast stop holds mast securely in place while adding extra height.

Galvanized Tower
3 ft., boxed, with 6 lag screws and 3 patches, Legs 36" Long With 30" Spread, 1-11/64" Dia.
Cat. No. 9160

5 ft., unboxed, no lag screws or patches
Cat. No. 32-9005



Antenna Guy Wire

4-stranded, 20 gauge wire made of galvanized steel. 50 ft.

Card of 1

Cat. No. 32-114



Aluminum Ground Wire

Heavy (1/8" diameter) soft aluminum wire for grounding masts and connecting antenna discharge units. 50 ft.

Cat. No. 32-123



Antenna Wire

Stranded 16-gauge copper wire, not insulated. The standard wire for outside antennas. 50 ft.

Cat. No. 32-146



Cable Clamps

Popular guy wire clamps to hold wires securely. Galvanized steel.

1/4" wire size

Cat. No. 8131

1/8" wire size

Cat. No. 8133



3-Way Guy Wire Mast Clamp

Three screw eyes for attaching guy wire to masts up to 1-1/2" diameter. Guy Wire Kit includes 3-way guy wire clamp, 3 screw hooks, 3 turnbuckles and 50 ft. of guy wire.

Box of 1 Mast Clamp

Cat. No. 8911

Card of 1 No. 8911

Cat. No. 32-026



Mast Clamp Assembly

Complete clamp assembly to fasten cross bars to mast. Edges are serrated to prevent twisting.

Mast clamp assembly with reinforcing plate

Cat. No. 8718

Card of 1 No. 8718

Cat. No. 32-030

Mast clamp assembly only

Cat. No. 8718-N



Ground Rods

Heavy copper plated rod with tapered tip. Easily driven into the ground. Complete with clamp.

4' x 3/8" diameter

Cat. No. 8929

6' x 3/8" diameter

Cat. No. 9016



Turnbuckles

Extra strong turnbuckles. For installing guy wires on antennas.

Closed 4", open 5-5/8"

Cat. No. 8057

Closed 5-1/2", open 7-5/8"

Cat. No. 8365



Screw Hook

Steel, zinc plated. 4-3/8" long; 1/4" wire size, 11/32" I.D.

Cat. No. 8732



Screw Eyes

Steel, zinc plated.

3" long; 7/32" wire size; 7/16" I.D.

Cat. No. 8342

5" long; 1/4" wire size; 5/8" I.D.

Cat. No. 8486



Slotted Hex Washer Head Lag Screw

Steel, zinc plated. Designed for installation of TV antenna mounts and brackets.

1/4" x 2-1/2"

Cat. No. 8061



75 Ohm Antenna/Rotor Wall Plate

Connects antenna with 75 ohm down-lead and rotor wire to same wall plate.

Ivory

Cat. No. 32-085

VIDEO ENHANCEMENT PRODUCTS



Coax Surge Suppressor

Provides protection to electronic equipment from surges that occur on coaxial cable lines. Use in-line with TV's, VCR's.

Cat. No. 32-3185



Video System Selector

Audio/Video System Selector, selects between base band video input sources (VCR's, Video Camera, Video Disc Players, etc.) simply at the push of a button. Designed for use with stereo or monoaural equipment. RCA type phone jack connectors.

Cat. No. 32-3240



RF Modulator

Converts Audio and Video output signals from computers, TV games, video cameras, and satellite receivers, into normal VHF TV signals that may be viewed on channel 3 or 4 of any television set. FCC approved.

Cat. No. 32-3092



Outdoor Mini UHF/VHF Antenna Amplifier

- Amplifies weak UHF/VHF television signals.
- Increases incoming signal by 20 times.
- Consists of antenna boom mounted amplifier,

UL listed power supply, 6'RG-59 coaxial cable, weather boot, and tie wrap.

- Packaged in a clear, clam shell blister pack for optimum consumer appeal.

Specifications:

Frequency Range: 54-88 MHz 174-806 MHz

Impedance: 300 Ohm (in), 75 Ohm (out)

Gain: 13 dB

Noise Figure: 3.5 dB

Power Required: 117 VAC

Output Capability: 45 dBmV per ch. (8 chs.)

Cat. No. 32-3111



Solid-State 75 Ohm VHF/FM Signal Amplifier

Recommended for any system that uses a single antenna feeding more than 2 TV sets and for areas with a medium to weak TV signal. Provides 10 dB increase in signal strength. Input and output terminals take 75 ohm coaxial cable "F" type connectors.

Cat. No. 32-3090



Two Way Amplifier

This two-way signal amplifier provides up to 24 dB gain to two 75 ohm outputs. FM trap prevents interference by blocking frequencies 88-108 MHz when switched on. The gain control will adjust signal strength by 10 dB.

Specifications:

Band Width: 50-890 MHz

Noise Figure: 6 dB

Gain (dB) VHF: 24 dB

Gain (dB) UHF: 21 dB

Power: 117V AC, 60 Hz, 3.6 Watts

Cat. No. 32-3069



Deluxe VHF/UHF Amplifier with FM Trap, 24 dB

75 ohm broad band distribution amplifier, designed to restore and improve video signal normally weakened when using multiple TV/VCR hookups and switches. Features built-in, switchable FM trap, on-off indicator light and high overload protection. 117V AC, 60 Hz.

Cat. No. 32-3091



4-Way UHF/VHF Cable Distribution Amplifier

Allows for the splitting of the cable or antenna signal to 4 outputs (TV's, VCR's etc.) without losing any signal strength. 50-890 MHz, minimum 1 dB gain, noise figure 5 dB 120 VAC 60 Hz.

Cat. No. 32-3094



Remote Control A/B Switch

This infrared remote control video switch allows you to switch between two 75 ohm inputs (cable, antenna, satellite or dual cable systems) and a 75 ohm output (probably a TV) without leaving the comfort of your chair.

Complies with FCC part 15.6 and is recommended when switching between cable TV and antenna systems inputs. Isolation 80 dB. AC adaptor.

Specifications:

Frequency Range: 5-2050 MHz

Cat. No. 32-3221



Combination Prep Tool for Coax Cable

Attach twist-on "F" connectors like a professional when you use this convenient cable preparation tool. One end quickly enlarges space between shield and insulation with a simple twist of the wrist. The other end is threaded to hold "F" connectors snugly, while perfectly placing them onto coax cable, ready to crimp. Nickel-chrome. T shaped tool easily fits into pocket or tool box.

RG-6 Cable
Cat. No. 12-390
 RG-59 Cable
Cat. No. 12-395

VIDEO CABLES



Deluxe Picture-In-Picture Hookup Kit

With Gold-Plated Connectors
 For use on TVs with picture-in-picture (PIP) feature. Contains six cables and one splitter for most common hookups. A necessary accessory for every PIP TV set. The gold-plated connectors virtually eliminate audio and visual noise. A great item for television add-on sales.

Cat. No. 32-3164

BAND SEPARATORS

Frequency Range (MHz.)	Insertion Loss		Input Connector	Output Connector	Cat. No.
	VHF	UHF			
54-890	1.0	1.5	75 ohm	(2) 300 ohm	32-3028
54-890	1.0	1.5	75 ohm	(3) 300 ohm	32-3032
54-890	2.0	3.0	75 ohm	(1) 75 ohm (1) 300 ohm	32-3040
54-890	2.0	3.0	75 ohm	(1) 75 ohm (2) 300 ohm	32-3042



75 to 300 Ohm UHF/VHF Band Separator

Matches 75 ohm input from coaxial antenna cable to 300 ohm Video Cassette Recorders and TV sets.

Cat. No. 32-3028



75 to 300 Ohm UHF/VHF/FM Band Separator

Matches 75 ohm input from coaxial antenna cable to 300 ohm Video Cassette Recorder and TV sets. Separates VHF, UHF and FM signals. With FM tap.

Cat. No. 32-3032



75 to 75/300 Ohm UHF/VHF/FM Band Separator

Matches 75 ohm coaxial cable to 75 ohm VHF output and 300 ohm UHF output for VCR and TV set.

Cat. No. 32-3040



75 to 75/300 Ohm UHF/VHF/FM Band Separator

Matches 75 ohm input from coaxial cable to 75 ohm VHF output and 300 ohm UHF output. Also separates FM signals.

Cat. No. 32-3042



RG-59 "F" Type plug to "F" type plug.

- 1.5 ft. **Cat. No. 32-3175**
- 3 ft. **Cat. No. 32-3130**
- 3 ft. Gold Connectors **Cat. No. 32-3230**
- 6 ft. **Cat. No. 32-3131**
- 6 ft. Gold Connectors. **Cat. No. 32-3231**
- 12 ft. **Cat. No. 32-3132**
- 25 ft. **Cat. No. 32-689**
- 3 ft. white coax **Cat. No. 32-3330**
- 6 ft. white coax. **Cat. No. 32-3331**
- 12 ft. white coax. **Cat. No. 32-3332**
- 25 ft. white coax. **Cat. No. 32-3335**
- 50 ft. white coax. **Cat. No. 32-3344**
- 100 ft. white coax. **Cat. No. 32-3345**



RG-6 "F" Type to "F" type plug.

- 3 ft. **Cat. No. 32-3173**
- 6 ft. **Cat. No. 32-3176**
- 12 ft. **Cat. No. 32-3178**
- 3 ft. white **Cat. No. 32-3333**
- 6 ft. white **Cat. No. 32-3334**
- 12 ft. white **Cat. No. 32-3336**
- 25 ft. w/ground wire **Cat. No. 32-3273**
- 100 ft. w/ground wire **Cat. No. 32-3277**



RG-59 "F" type plug to "F" type plug with rubber weather boot.

- 50 ft. **Cat. No. 32-691**
- 75 ft. **Cat. No. 32-693**
- 100 ft. **Cat. No. 32-695**



RG-59 BNC plug to BNC plug.

- 3 ft. **Cat. No. 32-3142**
- 6 ft. **Cat. No. 32-3143**
- 12 ft. **Cat. No. 32-3144**



RG-59 Phono (RCA-type) plug to Phono (RCA-type) plug.

3 ft.
Cat. No. 32-3148
 6 ft.
Cat. No. 32-3149
 12 ft.
Cat. No. 32-3150



RG-59 BNC plug to Phono (RCA-type) plug.

3 ft.
Cat. No. 32-3154
 6 ft.
Cat. No. 32-3155



RG-59 Right-angle "F" type plug to Right-angle "F" type plug. Push-on type

6 ft.
Cat. No. 32-3160



RG-59 Straight "F" type plug to Straight "F" type plug. Push-on type

3 ft.
Cat. No. 32-3163
 6 ft.
Cat. No. 32-3162



RG-59 Gold dual-phono (RCA-type) plug to gold dual-phono (RCA-type) plug.

6 ft.
Cat. No. 32-3236



RG-59 Gold triple-phono (RCA-type) plug to gold triple-phono (RCA-type) plug. For stereo VCR's.

6 ft.
Cat. No. 32-3237



RG-59 75 Ohm round coaxial down-lead cable (without connectors).

50 ft.
Cat. No. 32-3068



300 Ohm flat foam-filled twin-wire down-lead cable (without connectors).

50 ft.
Cat. No. 14-520-2N21
 75 ft.
Cat. No. 14-520-2N31



High Resolution Video Cable

High resolution video cable with gold-plated RCA plugs on each end make better contact to provide the best possible image from video tape and laser disc players. Superior shielding reduces ghosting and color impurities associated with external interference.

6 ft.
Cat. No. 32-3765



Super VHS Video Cable

4-pin mini DIN plugs on both ends are designed for Super VHS video cassette recorders. PE foam improves degree of isolation providing the highest resolution picture available, free from external interference. Gold-plated pins prevent loss at point of contact for the sharpest possible image.

2 Meter Cable
Cat. No. 32-3766
 5 Meter Cable
Cat. No. 32-3767



S-VHS Video Cable

4 pin S-connector plug to 4 pin S-connector plug. Compatible with S-VHS equipment and televisions that use a 4 pin S-connector to separate luminance (Y) and chroma (C) signals, which will provide an enhanced, signal to noise ratio, horizontal resolution, contrast and picture quality.

6 ft.
Cat. No. 32-3165
 12 ft.
Cat. No. 32-3166
 25 ft.
Cat. No. 32-3167



S-VHS Adaptor

4 pin S-connector jack to 4 pin S-connector jack, used to connect two S-VHS video cables with 4 pin S-connector plugs.

Cat. No. 32-3170



VCR Replacement Cable

A replacement cable identical to those most VCR manufacturers supply with their units. A quick-connect "F" Type plug with 5' of 75 ohm coaxial cable attached to a switchable 300/75 ohm transformer makes for a 75 ohm coaxial signal or a 300 ohm twin lead antenna connection.

Cat. No. 32-3011



Twin Lead Jumper

6' of 300 ohm twin lead cable with spade lug terminals on both ends allow remote extension between VCR and TV set.

Cat. No. 32-630

VIDEO HOOKUP HARDWARE



Cable Clips For 75 Ohm Coaxial Cable

Use these easy-to-install clips to secure coaxial cable to wood, dry wall, plaster, brick, cement - almost any surface. Made of tough non-corrosive plastic with hardened steel nails.

For RG59-U, Pkg. of 10, White
Cat. No. 32-3058

For RG59-U, Pkg. of 10, Black
Cat. No. 32-3057

For RG-6, Pkg. of 6, White
Cat. No. 32-3351

For RG-6, Black
Cat. No. 32-3051-BU

For Quad Shield RG-6, Black
Cat. No. 32-3071-BU

For Quad Shield RG-6, Pkg. of 6, Black
Cat. No. 32-3056



Coax Grounding Block

Used with 75 ohm antenna installations to protect system from damage caused by lightning.

Cat. No. 32-3015



Feed-thru Bushing For 75 Ohm Coaxial Cable

Gives your installation a professional look. Flanges secure and protects cable, help seal opening. Bushing fits RG-59-U 75 ohm coaxial cable.

Bulk only Ivory

Cat. No. 32-3050-BU

Bulk only Black

Cat. No. 32-3052-BU

Pkg. of 4, 2 Ivory and 2 Black
Cat. No. 32-3049

TRANSFORMERS



75 to 300 Ohm Indoor Matching Transformer

Matches 75 ohm input from coaxial cable to 300 ohm output. UHF/VHF/FM with AC/DC locking and shielding to minimize direct pickup. 3 capacitors. Connects to 75 ohm coaxial cable with an "F" connector. 300 ohm twin-lead cable attaches to 300 ohm terminals on VCR or TV set.

Cat. No. 32-3008

Gold

Cat. No. 32-3708



300 to 75 Ohm Outdoor Matching Transformer

Tough, weatherproof transformer is sealed against the elements. Matches 75 ohm input from coaxial cable to 300 ohm output. By simply reversing the unit it will match 300 ohm twin-lead cable to 75 ohm coaxial cable. Can be mounted directly on outdoor TV antenna. Coaxial cable attaches directly to transformer with an "F" connector.

Cat. No. 32-3010

Gold

Cat. No. 32-3710



300 to 75 Ohm Matching Transformer

Matches 300 ohm input from twin-lead cable to 75 ohm output. Twin-lead cable connects to insulation piercing terminals on the unit. 75 ohm coaxial lead cable attaches to VCR or TV set with "F" connector.

Cat. No. 32-3026



300 to 75 Ohm Push-On Matching Transformer

Push-on quick-connect unit matches 300 ohm twin-lead cable to 75 ohm input of VCR, TV or Video Projection System. It is also reversible. Twin-lead cable connects to insulation piercing screw terminals on the unit. Similar to transformers supplied as original equipment..

Cat. No. 32-3012



UHF/VHF Combiner Transformer 75 Ohm VHF/300 Ohm UHF to 75 Ohm

For use with TV sets or VCR's with a single 75 ohm UHF/VHF input. It is used in conjunction with a 300 ohm antenna down lead and a 75 ohm coaxial cable.

Cat. No. 32-3035



UHF/VHF Combiner Transformer 300 Ohm to 75 Ohm

For use with late model TVs and VCR's having a single combined UHF/VHF 75 ohm input. Separates combined input into separate 300 ohm UHF and VHF inputs.

Cat. No. 32-3045



UHF/VHF Combiner Transformer 75 Ohm to 75 Ohm

For use with TV sets or VCR's with a single 75 ohm UHF/VHF input. It is used in conjunction with two 75 ohm coaxial cables.

Cat. No. 32-3055

VIDEO SWITCHES



2-Way 75 Ohm Coaxial Switch

Use this unit for switching between two different signal sources – such as from Cable TV to VCR, also permits VCR system to record from two video sources. Isolation 40 dB.

Cat. No. 32-3024



High Isolation A/B Coaxial Switch

Heavy-duty high isolation switch prevents interference between two inputs. Interference is often a problem when the inputs are modulated at the same frequency (i.e. both VCR and Cable TV on Channel 3). Two 75 ohm "F" type inputs, one "F" type 75 ohm output. Complies with FCC part 15.6 recommended for use when switching between cable TV and antenna system inputs. Isolation 90 dB.

Cat. No. 32-3210



High Isolation A/B Switch

Miniature high isolation switch prevents interference between two inputs. Switches TV set between antenna and VCR or cable TV. Two 75 ohm inputs, one 75 ohm output. Complies with FCC part 15.6. Recommended for use when switching between cable TV and antenna system inputs. Isolation 80 dB.

Cat. No. 32-3211



High Isolation A/B/C Coaxial Switch

Ultra-high isolation coaxial switch prevents interference when switching between three inputs. Recommended for use when switching between cable and an antenna system and any other input (VCR etc.). Three 75 ohm "F" type inputs, one "F" type 75 ohm output. Complies with FCC part 15.6. Recommended for use when switching between cable TV and antenna system inputs. Isolation 90 dB.

Cat. No. 32-3212



3-Way Video Selector Switch

Shielded, low-loss switcher permits instant selection of three different outputs from one signal source. Easily installs in-line. Isolation 40 dB.

Cat. No. 32-3029

SIGNAL COMBINERS



Channel 3 Signal Combiner

Eliminates the need for an A-B Switch with any Channel 3 output device by creating a Channel 3 input into an existing antenna or cable signal. Compatible with cable box, satellite receiver or VCR. Adjustable controls for signal balancing.

Channel 3 Version
Cat. No. 32-3031
Channel 4 Version
Cat. No. 32-3041



Diplex/Mixer

Combine or divide two signals. 40 – 2050 MHz.

Outdoor High. Performance
Cat. No. SD-4160-BU
Outdoor Std. Performance
Cat. No. SD-4164-BU

WALL PLATES



Wall Plate for "F" Type to "F" Type Connections

This flush-mounted wall plate has a standard "F" type connector for input, and an "F" type connector for output. Includes mounting screws.

Brown
Cat. No. 32-3060
Ivory
Cat. No. 32-3062

White
Cat. No. 32-3066

Almond
Cat. No. 32-3192-BU

Mid-Size White
Cat. No. 32-3043-BU

Mid-Size Ivory
Cat. No. 32-3047-BU



Dual "F" Connector Wall Plate

For use with two televisions, television and VCR or television and stereo.

White
Cat. No. 32-3197

Ivory
Cat. No. 32-3063

Almond
Cat. No. 32-3193-BU



Coax Decor Wall Plates

These Decor Wall Plates which are available in white and ivory, with matching color mounting screws will enhance custom interiors. They are in compliance with NEMA Standard WD-1. Coax plates have a F-81 type bulkhead "F" jack for use with 75 ohm coax cable.

Ivory
Cat. No. 32-3061

White
Cat. No. 32-3059

Almond
Cat. No. 32-3191-BU



Decor Dual "F" Connector Wall Plates

For use with two televisions, television and VCR or television and stereo.

Ivory
Cat. No. 32-3195

White
Cat. No. 32-3196



Feed-Thru Wall Plates

This wall plate allows cable to be directly connected to TV or VCR. Can also be used with splitters and drop taps.

Ivory
Cat. No. 32-3053

White
Cat. No. 32-3054



Selectable Isolation Line Tap-Off

UHF/VHF/FM Tap-Off, single 75 ohm output from 75 ohm trunk line. Clip wire on back of tap to change isolation from 12 dB to 17 dB. Trunk line connections are clamp type for all 75 ohm RG-59 or RG-6 cable. AC/DC passive, low insertion loss.

Ivory
Cat. No. 32-3065-BU

White
Cat. No. 32-3169-BU

GAME ACCESSORIES



Nintendo® AC Power Supply

Replacement AC Power Supply for Nintendo® games. Output 9 VAC at 1.3 Amps. UL Listed.

Cat. No. 32-6013

Nintendo® is a registered trademark of Nintendo of America Inc.



Universal Game Switch

Dual input/dual output switch for hookup of TV game to TV with either 75 or 300 ohm input. May be used with either 75 or 300 ohm antenna input. Isolation 40 dB.

Cat. No. 32-3027



Automatic TV/Game Switch

For use with Nintendo® and other games that use a DC voltage to automatically switch from TV to a game.

Cat. No. 32-3037

Nintendo® is a registered trademark of Nintendo of America Inc.



Video Tape Copying (Dubbing) Kit

Use this kit to connect two home Video Cassette Recorders for video tape duplicating and editing. Kit connects the two VCR's in a "line" mode for best quality video and audio fidelity.

Kit Contains:

- 6 ft., 75 ohm coaxial video cable with phono (RCA-type) plugs at both ends, **Cat. No. 32-3149**
- 6 ft. audio cable with phono (RCA-type) plugs at both ends, **Cat. No. 30-404**
- 2 adapters with phono (RCA-type) jack to 3.5 mm plug, **Cat. No. 30-495.**

Cat. No. 32-3077

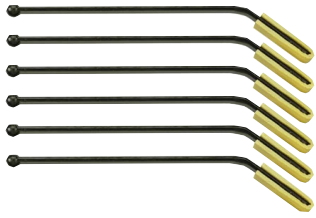


TV/Video Game Switch

This precision switching device lets you convert your TV receiver to TV games or into a TV monitor for a home computer and then back to a TV receiver by moving one switch. Connects to your TV VHF input terminal. VHF twin-lead antenna cable is easily connected to the insulation piercing terminals on the switch body. Isolation 40 dB.

Cat. No. 32-3025

CLEANING PRODUCTS



Chamois Cleaning Wands

These top quality wands are tipped with soft absorbent chamois and angled slightly to fit easily into hard-to-reach places. Reusable.

6 to a pkg.
Cat. No. 32-3088
 50 to a pkg.
Cat. No. 32-3098



Lintless Head Cleaning Swabs

Designed specially to clean delicate VCR and audio tape head mechanisms without scratching. Soft, absorbent polyurethane foam on 6" wooden dowel. Reaches deep into recording unit to clean out even the most stubborn dust. Reusable. 20 swabs to a package.

Cat. No. 10-277



VHS Format VCR Head Cleaning Cartridges Wet Type

These cartridges gently clean accumulated oxides, dirt and dust from recorder and playback heads, capstans and rollers along the entire tape path inside your VCR. Regular use after 10-15 hours of playing time helps keep picture and sound clear and crisp. More frequent use is recommended if VCR is used in areas where it is exposed to heavy tobacco smoke or salt air or if the stop-frame mode is often used. Cartridges snap into place just like a VCR cartridge. Cleaning tape is super soft and non-abrasive. (Cleaning liquid included).

VHS Format
Cat. No. 32-3186

CABLE HELPERS



3 Ft. Video Cables
 40 per Carton

"F" to "F" type, 75 ohm coax. Ideal for rack systems.
Cat. No. 32-3130-40



Coax Wall Plates
 40 per Carton

Flush mounted ivory wall plate has an "F" type connector for input and output. Ideal for connecting 75 ohm coaxial cables in additional locations. Includes mounting screws.

Ivory
Cat. No. 32-3062-40
 White
Cat. No. 32-3066-40



6 Ft. Video Cables
 25 per Carton

"F" to "F" type, 75 ohm coax. Most popular length.
Cat. No. 32-3131-25



Two-Way Splitters
 80 per Carton

Takes one 75 ohm input and splits it into two 75 ohm outputs. Die cast body features cast-in grounding block and mounting tabs.

Cat. No. 32-3018-80

TELEVISION WALL MOUNTS



New space-saving television/monitor mounts are ideal for today's home or office. As space-saving becomes more valuable in every room, GC mounts provide a modern alternative to bulky TV stands and home entertainment centers. By attaching your TV to a GC mount, you will save space while adding to the decor of your bedroom, den, office, bar or any room in the house. The

high-tech black, scratch resistant finish complements today's contemporary lifestyles and television designs.

In addition to saving space, GC wall mounts make watching TV easier. The 10° shelf tilt angle and the 90° left/right swivel lets you position the television for optimum viewing from any point in the room. GC wall mounts fit most 13", 19"/20" and 25"/27" televisions and monitors. All mounts include hardware for wood installation.



13" Television Mount

Tray Width: 14"
Max. Depth of Set: 15-1/2"
Load Rating: 85 lbs.
Fits: Most 13" Sets

Black

Cat. No. 32-1813

White

Cat. No. 32-1813-WH



25"/27" Television Mount

Tray Width: 25"
Max. Depth of Set: 19-1/2"
Load Rating: 125 lbs.
Fits: Most 25" and 27" Sets.

Black

Cat. No. 32-1827

Ceiling Mount

Cat. No. 32-1827-CM



Satellite Receiver/VCR Bracket

- Attaches to Wall or Ceiling Mount
- Adjustable Height and Width
- 2-1/2" to 4-1/2" High
- 12-1/2" to 17-1/4" Wide

Black

Cat. No. 32-1830

White

Cat. No. 32-1830-WH



19"/20" Television Mount

Tray Width: 20"
Max. Depth of Set: 18"
Load Rating: 100 lbs.
Fits: Most 19" and 20" Sets

Black

Cat. No. 32-1820

White

Cat. No. 32-1820-WH

Ceiling Mount

Cat. No. 32-1820-CM



Ceiling/Wall Anchor Kit with 4 Bolts

For concrete walls.

Cat. No. 32-1820-AK

SATELLITE SYSTEM ACCESSORIES



7 mm Coax Clip

For attaching RG-6 coaxial cable to wood or plaster walls.

10 Pack Black

Cat. No. SD-461



RG-6 Feed-Thru Bushing

For feeding RG-6 coaxial cable thru walls.

6 Pack Black

Cat. No. SD-471



Coax Clip for Cement

For attaching RG-6 coaxial cable to cement or stucco walls.

10 Pack

Cat. No. SD-463



Stereo Audio/Video Cable

For connecting satellite receiver to television. Gold-plated triple RCA plugs to triple RCA plugs.

12 ft.

Cat. No. SD-1538



1-Way Indoor Amplifier
 The 1-way signal amplifier provides up to 25dB gain to one 75 ohm output. FM trap prevents interference by blocking frequencies 88-108 MHz when switched on.
Cat. No. SD-4302



In-Line Amplifier
 950-1450 MHz for Satellite Signal.
Cat. No. SD-4005



RG-6 Direct Burial Coax Cable
 Attached weatherproof "F" connectors. Fully compatible with mini dish satellite systems. 18 gauge, minimum 45% braid, swept 950-1450 MHz. Bonded aluminum shielding.
 12 ft. **Cat. No. SD-700**
 25 ft. **Cat. No. SD-702**
 50 ft. **Cat. No. SD-704**
 75 ft. **Cat. No. SD-706**
 100 ft. **Cat. No. SD-710**
 1000 ft. Pkgd. in Pull-Out Box **Cat. No. SD-711**



Satellite Finder
Cat. No. SD-5001



Compression Crimp Tool
 For RG-6 cable with SD-446-BU weatherproof connector.
Cat. No. 12-556



Ground Rod
 Includes ground wire connection.
 3/8" x 8' Copper-Clad
Cat. No. SD-9692

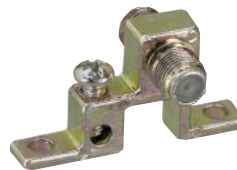


Ground Straps and Connector
 Connects mini dish or coax grounding block to grounded location.
 Galvanized Strap **Cat. No. SD-440**
 Copper Strap **Cat. No. SD-441**
 Split Connector **Cat. No. SD-435-BU**



Ground Rod Clamp 5/8"
 Connects ground rod to #8 aluminum ground wire.
Cat. No. SD-426

CATV TO 1 GHz"



Premium Grounding Block
 1 GHz
Cat. No. SD-3050-BU



SURGE

**See Inside
For NEW UPS**

All of the equipment connected to GC Accessory products are susceptible to damage from electronic surges, whether from a lightning strike or from disruption of service. That's why GC Electronics' offering of Surge products, supported by the offering from Woods Industries, our sister company, is so important to you. These electrical surges can enter expensive appliances through more than just the power lines. That's why you'll find surge protection for cable TV, DSS, and telephone as an important addition to the full range of standard AC surge protectors. GC gives you a choice of both cost-effective standard protection as well as access to premium surge protectors, all on one order. Surge protectors are offered in a variety of forms, including single and multiple wall taps, as well as multiple outlet strips. Today, GC and Woods offer you a variety of strips with longer cords to accommodate a variety of needs.

Surge protection is classified by the type and amount of protection provided:

Basic: Consists of one MOV (metal oxide varistor), protecting only the Hot to Neutral connection. This level of protection works well for answering machines, telephones, radios, and other appliances that are not as susceptible to damage.

Full: Three MOVs are mounted across all three lines (Hot to Neutral, Neutral to Ground, and Hot to Ground). This offers protection regardless of how the house or appliance is wired, or how the surge is transmitted. These units are best for TVs, VCRs, video games, and other more valuable equipment.

Premium: These protectors include the same features as the full protection devices plus EMI/RFI filtering and generally have higher ratings. As a result, many of the premium surges carry extended warranties. They are best suited to computer, fax, and professional AV applications.



How do GC and Woods Surge Suppressors protect your equipment?

The MOV acts like an electronic sponge. It absorbs the excess voltage and keeps it from damaging your equipment. This is accomplished in two ways. If the voltage spike is less than 1,000 nanoseconds (one millionth of a second), the spike is absorbed and no damage occurs to the appliance or the surge protector. If the spike is greater than 1,000 nanoseconds, the MOV self-destructs, protecting the equipment. When this occurs, the surge protector must be replaced.

Glossary of Terms

Joule Rating:

A joule is a measurement of energy. The joule rating of a suppressor indicates the amount of energy that the device is capable of absorbing. In general, the higher the joule rating, the greater the protection.

Clamping Voltage:

This is the amount of voltage that triggers the unit to provide surge protection. The lower the clamping voltage rating, the better the protection offered by the device. The current UL (Underwriters Laboratories) ratings indicate that the best protection available today is 330 volts, AC.

Response Time:

The reaction time of a surge suppressor is called its response time. Superior units have a response time of less than one nanosecond.

EMI/RFI Protection:

Electro Magnetic Interference and Radio Frequency Interference are forms of electronic noise that travel along the electrical lines or through the air and can interfere with electronic equipment performance. Computers, modems, printers, and fax machines are the most susceptible devices to EMI and RFI.



POWER STRIPS



6-Outlet Plastic Strip

Electrical Ratings:
120V/15A/1875W
Power Cord:
14 Awg, UL SJT
Circuit Breaker:
15 Amp Resettable
4 ft. cord
Cat. No. 64-807



6-Outlet Metal Strip

Electrical Ratings:
120V/15A/1875W
Power Cord:
14 Awg, UL SJT
Circuit Breaker:
15 Amp Resettable
4 ft. cord
Cat. No. 64-808
10 ft. cord
Cat. No. 64-8080
15 ft. cord
Cat. No. 64-8085



SURGE SUPPRESSORS



**Single Outlet
Extra Protection**

Electrical Ratings:
125V/15A/1875W
Maximum Surge Dissipation:
270 Joules
Maximum Spike Current:
4500 Amps
Clamping Voltage:
330 Volts
Response Time:
Less than 1 nanosecond
Maximum Surge Voltage:
6000 Volts
Lines Protected:
Hot to Neutral, Neutral to
Ground, Hot to Ground
EMI/RFI Noise Specifications
Frequency: 100 KHz — 50 MHz
Attenuation: -10db — -58 db
Cat. No. 64-811



**6-Outlet Strip
General Protection**

Electrical Ratings:
125V/15A/1875W
Maximum Surge Dissipation:
90 Joules
Maximum Spike Current:
4500 Amps
Clamping Voltage:
330 Volts
Response Time:
Less than 1 nanosecond
Maximum Surge Voltage:
6500 Volts
Line Protected:
Hot to Neutral
4 ft. cord
Cat. No. 64-661
10 ft. cord
Cat. No. 64-6610
15 ft. cord
Cat. No. 64-6615
4 Outlet Strip,
90 joule protection
3 ft. cord
Cat. No. 64-663



**Wall Mount 6-Outlet
Maximum Protection**

Electrical Ratings:
125V/15A/1875W
Maximum Surge Dissipation:
240 Joules
Maximum Spike Current:
4500 Amps
Clamping Voltage:
400 Volts
Response Time:
Less than 1 nanosecond
Maximum Surge Voltage:
6500 Volts
Lines Protected:
Hot to Neutral, Neutral to
Ground, Hot to Ground
Coax Line Surge
Specifications Maximum
Energy Dissipation:
46 Joules
Maximum Spike Current:
1200 Amps
Cat. No. 64-802



**3-Outlet Surge
and EMI/RFI Filter**
Suppresses Surges
on all lines, hot to
neutral, hot to
ground, neutral
to ground

Electrical Ratings:
15A, 125VAC, 60 Hz,
1875W
Maximum Spike:
171 Joules
Maximum Spike Voltage:
6000 Volts
Clamping Spike Voltage:
340 Volts
Maximum Spike Current:
9000 Amps
Clamping Response Time:
≤ 1 Nanosecond
EMI/RFI Filter
Filters: Normal and
common mode 100 khz
to 100 Mhz
Attenuation: 5db to
52 db, continuous duty
Cat. No. 64-813



**6-Outlet Strip
Maximum Protection**

Electrical Ratings:
125V/15A/1875W
Maximum Surge Dissipation:
270 Joules
Maximum Spike Current:
4500 Amps
Clamping Voltage:
330 Volts
Response Time:
Less than 1 nanosecond
Maximum Surge Voltage:
6500 Volts
Line Protected:
Hot to Neutral, Neutral to
Ground, Hot to Ground
Cat. No. 64-668



6-Outlet Strip

Electrical Ratings:
125V/15A/1875W
Maximum Surge Dissipation:
555 Joules
Maximum Spike Current:
13000A x 3 lines
Clamping Voltage:
330 Volts
Response Time:
Less than 1 nanosecond
Maximum Surge Voltage:
6000 Volts
Lines Protected:
Hot to Neutral, Neutral to
Ground, Hot to Ground
EMI/RFI Filtering:
150 KHz to 100 Mhz up to
40dB
4 ft. cord
Cat. No. 64-667



5-Outlet Strip EMI/RFI

Maximum Protection

Electrical Ratings: 125V/15A/1875W
Maximum Surge Dissipation: 200 Joules
Maximum Current: 4500 Amps
Maximum Spike Voltage: 6500 Volts
Clamping Voltage: 400 Volts
Response Time: Less than 1 nanosecond
Maximum Surge Voltage: 6500 Volts
Lines Protected: Hot to Neutral, Neutral to Ground, Hot to Ground

Coax Line Surge Specifications

Maximum Energy Dissipation: 46 Joules
Maximum Spike Current: 1200 Amps

EMI/RFI Noise Specifications

Frequency: 100 KHz - 30 MHz
Attenuation: -5db — -40db

Cat. No. 64-830



6-Outlet Strip EMI/RFI

Maximum Protection

Electrical Ratings: 125V/15A/1875W
Maximum Surge Dissipation: 357 Joules
Maximum Current: 4500 Amps
Maximum Spike Voltage: 6000V
Clamping Voltage: 330 Volts
Response Time: Less than 1 nanosecond
Maximum Surge Voltage: 6000 Volts
Lines Protected: Hot to Neutral, Neutral to Ground, Hot to Ground

Phone Line Surge Specifications

Maximum Energy Dissipation: 72 Joules
Clamping Voltage: 395 Volts
Maximum Spike Current: 1200 Amps

EMI/RFI Noise Specifications

Frequency: 150 KHz - 100 MHz
Attenuation: Up to 40 db"

Cat. No. 64-804



SURGE SUPPRESSORS & POWER STRIPS

Six-Outlet Metal Surge Suppressor

Maximum Protection

Surge suppressor functions to absorb excess voltage and reduce the surge to a safe level before it reaches your electrical/electronic equipment. Has circuit breaker for overload protection. Indicator verifies the unit is protecting. Durable steel case with baked enamel finish. Meets UL 1449 for surge suppressors.

Specifications:

Electrical Rating: AC 125 Volts, 15 Amps, 1875 Watts
3 Line Protection: (Hot, Neutral, Ground)
Surge Dissipation: 270 Joules
Surge Voltage: 6000 Volts
Surge Current: 4500 Amps
Response Time: Less than 1 Nanoseconds
Surge Indicator: Fused LED
Cord: 4 ft.
EMI/RFI*: Noise Reduction 100 Hz to 50 MHz
 (Electromagnetic/Radio Frequency Interference)*

Cat. No. 64-631



5 Outlet Metal Power Center

Maximum Protection

Electrical Ratings: 125V/15A/1875W
Maximum Surge Dissipation: 260 Joules
Maximum Current: 4500 Amps
Maximum Spike Voltage: 6000 V
Clamping Voltage: 330 Volts
Response Time: Less than 1 nanosecond
Maximum Surge Voltage: 6000 Volts
3 Lines Protected: Hot to Neutral

Phone Line Surge Specifications

Maximum Energy Dissipation: 40 Joules
Clamping Voltage: 395 Volts
Maximum Spike Current: 1200 Amps

EMI/RFI Noise Specifications

Frequency: 100 KHz - 1 MHz
Attenuation: -10 db to -35 db 5 1/2 foot cord

Cat. No. 64-6651



UPS (UNINTERRUPTIBLE POWER SUPPLIES)

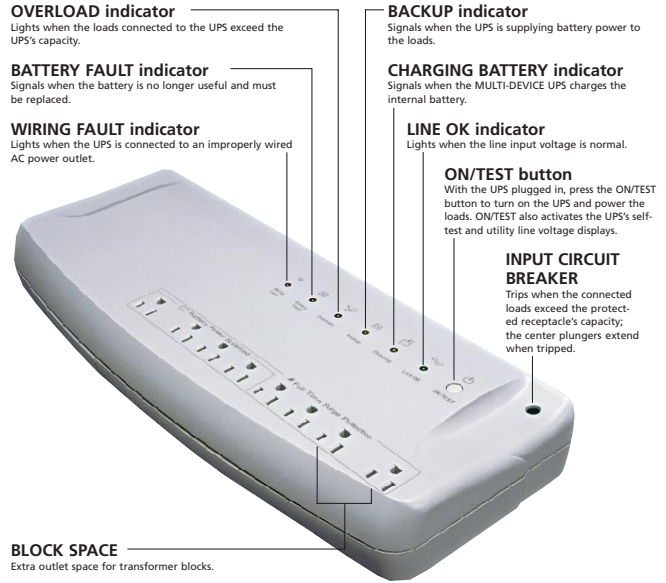
Protect your PC, external drives and monitor with battery backup. All-in-one power protection gives you UPS, surge protector and tel/modem/network surge protector. Simultaneous operation allows you to protect your entire computing environment at the same time. Choose the unit that is right for your needs.

Multi-Device UPS

Protect your PC, external storage drives and monitor with battery backup. Spread full-time surge suppression keeps any remaining integrated peripherals, like modems and phone systems safe.

Specifications:

- Capacity: 500VA
- Spike Protection: 240 Joules
- EMI/RFI Filter: 10 dB @ 0.15 Mhz, 50 dB @ 30 Mhz
- UPS Output: Overload and short circuit protection
- Tel/Fax/Modem: Single Line (2 wires, RJ11 or 10Base T Cable Port)
- Network (UTP, 11/RJ45) compatible jacks
- Short Circuit: Output: immediate UPS cutoff
- Input: circuit breaker protection
- Battery Back-Up: 3-15 minutes depending on computer load
- Cat. No. 64-501



Battery Back-Up & Surge Protection

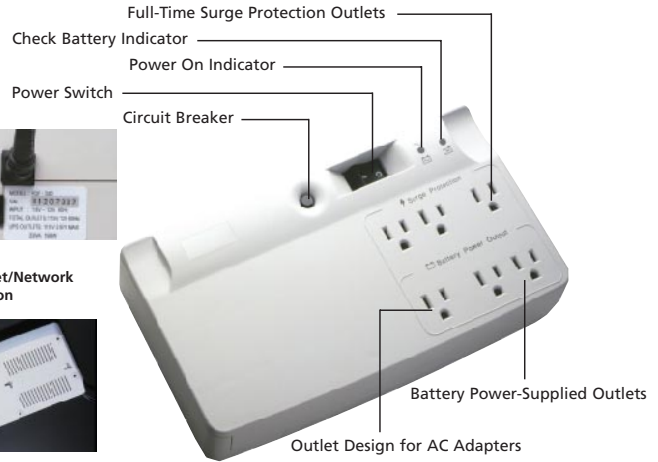
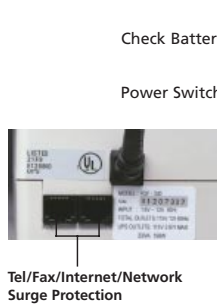
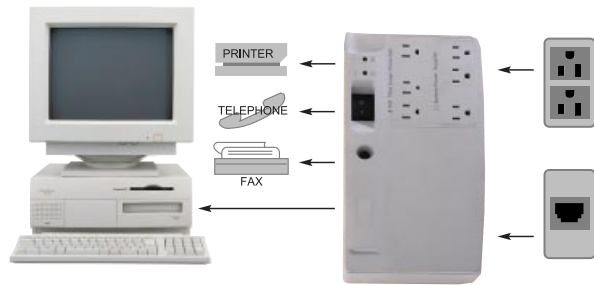
The ideal power protection system for home/office systems and it is internet ready.

Specifications:

- Capacity: 460VA
- Battery Back-Up: 12-24 minutes
- Input Voltage (single phase): +/- 18% at line input
- Output Voltage (on battery): Simulated sine wave +/- 5%
- Battery Output Frequency: 50 Hz 60 Hz +/- 5%
- Cat. No. 64-460

Specifications:

- Capacity: 330VA
- Battery Back-Up: 7-15 minutes
- Input Voltage (single phase): +/- 18% at line input
- Output Voltage (on battery): Simulated sine wave +/- 5%
- Battery Output Frequency: 50 Hz 60 Hz +/- 5%
- Cat. No. 64-330



Line Interactive UPS

Complete protection for internet computers and advanced servers.

Specifications:

Capacity: 425VA

Voltage Range: +/- 25% at line input

Frequency: 50 or 60 Hz +/- 10%

Voltage (on battery): Simulated sine wave @ +/- 5%

Frequency (on battery): 50 or 60 Hz +/- 5%

Spike Protection: 320 Joules

Unit Input: Fuse for overload & short circuit

EMI/RFI Filter: 10 dB @ 0.15 Mhz, 50 dB @ 30 Mhz

Short Circuit: UPS output cut off immediately

Cat. No. 64-425

Specifications:

Capacity: 625VA

Voltage Range: +/- 25% at line input

Frequency: 50 or 60 Hz +/- 10%

Voltage (on battery): Simulated sine wave @ +/- 5%

Frequency (on battery): 50 or 60 Hz +/- 5%

Spike Protection: 320 Joules

Unit Input: Fuse for overload & short circuit

EMI/RFI Filter: 10 dB @ 0.15 Mhz, 50dB @ 30 Mhz

Short Circuit: UPS output cut off immediately

Cat. No. 64-625

Specifications:

Capacity: 1000VA

Voltage Range: +/- 25% at line input

Frequency: 50 or 60 Hz +/- 10%

Voltage (on battery): Simulated sine wave @ +/- 5%

Frequency (on battery): 50 or 60 Hz +/- 5%

Spike Protection: 320 Joules

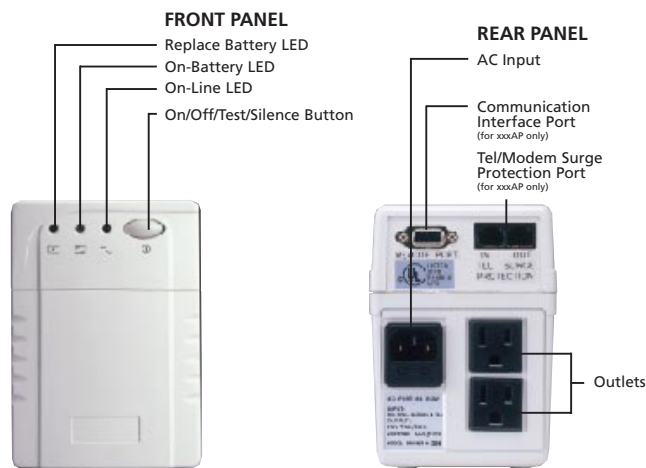
Unit Input: Fuse for overload & short circuit

EMI/RFI Filter: 10 dB @ 0.15 Mhz, 50 dB @ 30 Mhz

Short Circuit: UPS output cut off immediately

Cat. No. 64-1001

Complete Protection for Internet Computers and Advanced Servers



UPS Monitoring Software Features:

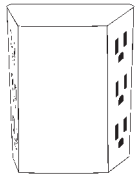
- Scheduled system shutdown/reboot
- Data log for power quality and UPS/power events
- Automatic shutdown and reboot
- Real-time graphical for UPS status and power events
- Broadcast power abnormal status
- Software control ON/OFF output power

ELECTRICAL CONVENIENCE – MULTIPLE OUTLETS

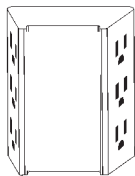
Extensive consumer research led to the development of this unique program of taps and strips that add style and function to the home or office. Decorative design, guide lights and safety features in patented, proprietary designs make this program exactly what consumers are looking for. All products are rated 15A, 125V, 1875W.

Home

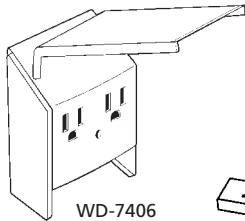
Decorative design and safety features make these taps and strips ideal for the home.



WD-7402



WD-7403



WD-7406

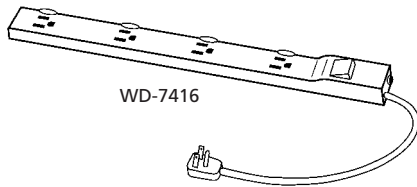
Taps

Cat #	Cond	Type	Description	Color	Std Pack
WD-87401*	2	6-Outlet	Tight Spot™ Polarized Side Entry Tap	white	8 pc. dispak
WD-7402	3	6-Outlet	Tight Spot™ Grounded Side Entry Tap	white	3
WD-87406	3	4-Outlet	Flip Top™ with night light and flip top	white	8 pc. dispak
WD-7409	3	6-Outlet	Accent™ Decorative faceplate design	white	3
WD-87410	3	6-Outlet	Wallpaper™ Side Entry Tap with snap on clear front Panel for inserting wallpaper	white	8 pc. dispak
WD-7403	3	6-Outlet	Power Light Side Entry Tap with nightlight.	white	3
WD-7404	3	4-Outlet	Easy Access™ With glow panel.	white	3

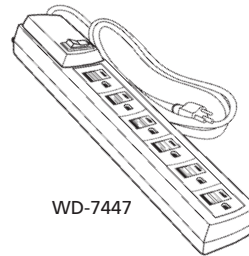
Strips

Cat #	Cond	Type	Description	Color	Std Pack
WD-7416	3	4-Outlet	Countertop™ Plastic Strip for kitchen backsplash, spring-loaded outlet covers, 1.5' cord	white	3
WD-7447	3	6-Outlet	Safety Strip™ Plastic Strip with safety covers, 3' cord	light gray	6

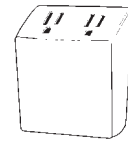
*For polarized, two-conductor outlets only



WD-7416



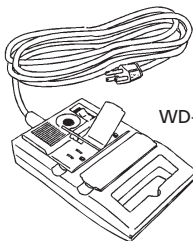
WD-7447



WD-7404

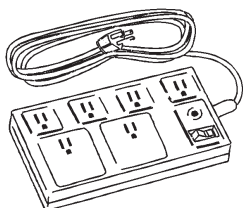
Workshop

Durable strips with safety features and added room for transformer outlets make these strips ideal for the workshop.

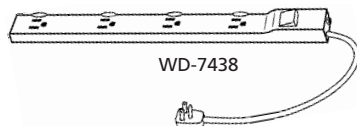


WD-7405

Cat #	Cond	Type	Description	Color	Std Pack
WD-7405	3	4-Outlet	Shop Block™ Plastic Strip with hinged outlet covers, 10' cord	black/yellow	3
WD-2177	3	4-Outlet	Power Block Metal Strip, 4' cord	black/yellow	4
WD-7411	3	6-Outlet	Tough Strip™ Metal Strip, 4' cord	black/yellow	3
WD-7408	3	6-Outlet	Transformer Deck™ Plastic Strip fits 2 transformers and 4 regular outlets, 4' cord	black/yellow	3
WD-7438	3	4-Outlet	Workbench Plastic Strip with spring-loaded outlet covers	white	4
WD-7413	3	4-Outlet	Workshop	black/yellow	3



WD-7408

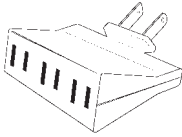


WD-7438

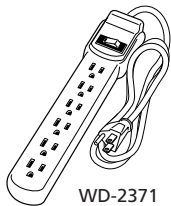
HOME IMPROVEMENT – MULTIPLE OUTLETS

Woods offers a complete selection of converters ranging from a simple plug adapter to six-outlet converters and strips. All Woods' multi-outlet products are carded, blister packed, boxed or in a clamshell for attractive display at point of sale.

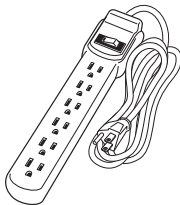
Converters



WD-7415



WD-2371



WD-2174

Taps

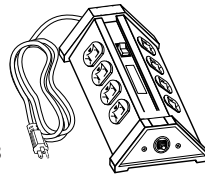
Multiple outlet taps convert a standard wall outlet into three, four or six grounded outlets.

Cat #	Cond	Type	Description	Color	Std Pack
WD-7415	2	3-Outlet	Polarized swivel top	white	6
WD-0795	2	6-Outlet	Polarized	ivory	5
WD-0395	2	6-Outlet	Polarized	white	5
WD-0796	3	6-Outlet	Grounded	ivory	5
WD-0396	3	6-Outlet	Grounded	white	5

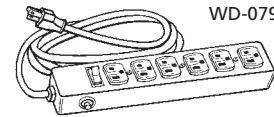
Strips

Multiple outlet strips convert a standard wall outlet into six or eight grounded outlets. All feature built-in circuit breaker.

Cat #	Cond	Type	Description	Wire	Color	Std Pack
WD-0799	3	6-Outlet	Metal, 4' cord	14/3 SJT	ivory	12
WD-0728	3	6-Outlet	Plastic, 4' cord	14/3 SJT	ivory	12
WD-2371	3	6-Outlet	Plastic, 3' cord, unlighted switch	14/3 SJT	warm gray	12
WD-2174	3	6-Outlet	Plastic, 8' cord	14/3 SJT	ivory	6
WD-2178	3	8-Outlet	Metal, 6' cord	14/3 SJT	black	2



WD-2178

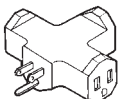


WD-0799

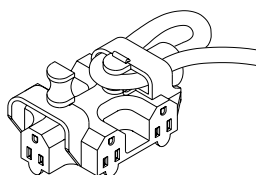
Adapters



WD-2524



WD-0794



WD-87462

1-Outlet Adapters

The PowerLite™ Plug shows power is on.

Cat #	Cond	Type	Description	Package	Color	Std Pack
WD-2524	3	1-Outlet	Grounded	Twin-Pack	yellow	3

3-Outlet Adapters

Multiple outlet adapters convert a single outlet into three grounded outlets.

Cat #	Cond	Type	Description	Package	Color	Std Pack
WD-80794	3	3-Outlet	Grounded	Bulk	beige	25
WD-0794B	3	3-Outlet	Grounded	Blister	beige	5
WD-80794O	3	3-Outlet	Grounded	Bulk	orange	25
WD-0794OB	3	3-Outlet	Grounded	Blister	orange	5
WD-0794GB	3	3-Outlet	Grounded	Blister	green	5
WD-80794G	3	3-Outlet	Grounded	Bulk	green	25

5-Outlet Adapters

Multiple outlet adapters convert a single outlet into five grounded outlets. Outdoor rated for use on construction sites or for the DIYer outdoor lighting projects. Features two cord locks to secure cords.

Cat #	Cond	Type	Description	Package	Color	Std Pack
WD-87462	3	5-Outlet	Grounded	Bulk	yellow	6

POWER SOLUTIONS PROGRAM – FOR THE HOME & OFFICE

Woods' Power Solutions Program was designed to offer practical, real life solutions to everyday power needs. Whether adding a multiple outlet tap that allows furniture to be pressed firmly against the wall to optimize space or adding a multiple outlet strip with an extra-long cord, Power Solutions has it covered. Contemporary packaging makes this the perfect complement to any sales floor.

Power Solutions



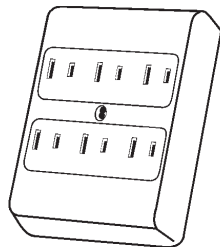
WD-5607

Cords

Cat #	Cond	Type	Description	Color	Std Pack
WD-5606	2	3-Outlet	10' Cord	gray	25
WD-5601	3	1-Outlet	25' Cord	black	12
WD-5607	3	3-Outlet	10' Cord	gray	10
WD-5754	3	3-Outlet	20' Cord	gray	12

Cord Covers

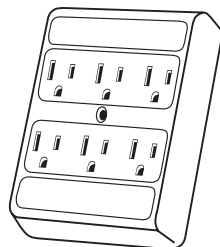
Cat #	Description	Color	Std Pack
WD-5610	6' x 1/2" Cord Channel	putty	6
WD-5612	6' x 1/2" Cord Channel	black	6



WD-0395 & 0795

Taps

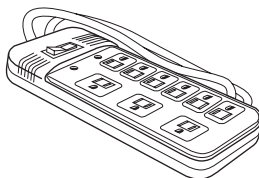
Cat #	Cond	Type	Description	Color	Std Pack
WD-0795	2	6-Outlet	Polarized	ivory	5
WD-0395	2	6-Outlet	Polarized	white	5
WD-7415	2	3-Outlet	Polarized, swivel top	white	6
WD-2105	3	6-Outlet	Plastic side entry w/circuit breaker	white	5
WD-0796	3	6-Outlet	Grounded	ivory	5
WD-0396	3	6-Outlet	Grounded	white	5
WD-5625	3	6-Outlet	Plastic side entry	white	5



WD-0396 & 0796

Strips

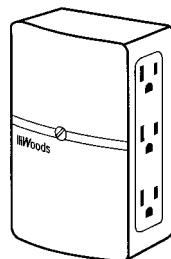
Cat #	Cond	Type	Description	Color	Std Pack
WD-0728	3	6-Outlet	Plastic, 4' cord	off-white	12
WD-5627	3	6-Outlet	Plastic, 4' cord	off-white	12
WD-0799	3	6-Outlet	Metal, 4' cord	ivory	12
WD-2371	3	6-Outlet	Plastic, 3' cord	off-white	12
WD-2174	3	6-Outlet	Plastic, 8' cord	off-white	6
WD-7499	3	9-Outlet	Plastic, 3' cord transformer spaced outlets	light gray	2
WD-6400	3	6-Outlet	Safety Strip with covers	light gray	6



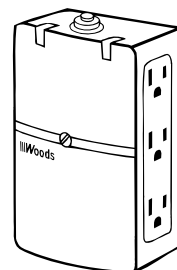
WD-7499

Adapters

Cat #	Cond	Type	Description	Color	Std Pack
WD-0794B	3	3	Grounded	beige	5
WD-7940B	3	3	Grounded	orange	5
WD-0794GB	3	3	Grounded	green	5



WD-5625



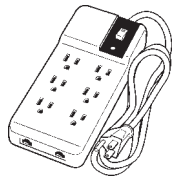
WD-2105

APPLICATION SPECIFIC SERIES™ – SURGE PROTECTION

Woods' Application Specific Series™ program provides a complete line of surge protection products in an easy-to-understand packaging format. Packaging is color coded to help identify specific consumer application. Product application is also clearly stated on the front of each package along with a photograph showing the electronics that unit is designed to protect. Packaging targeted to the specific consumer application makes the buying decision easier and ensures that the consumer will choose the right level of protection for their electronics.

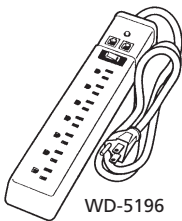
Product features such as number of outlets, cord length, power shut down protection and phone or coax line protection are listed in the same order on every package. This makes it easy for the consumer to identify and compare each product. A large, bright logo is used to identify the product warranty statement. A gold medallion is used for the 100% Lifetime Equipment Replacement Guarantee, while a silver medallion represents the 100% 1-Year Equipment Replacement Guarantee. All product information on the package is translated into French on the back and one side panel, and products meet UL, CSA, and CUL standards, making these products ideal for both domestic and Canadian markets. All products are rated 15A, 125V, 1875W. Phone line protection meets UL 497A.

Power Solutions



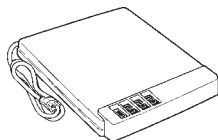
WD-2271

Taps				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-5187	3	6-Outlet	Computer + Modem Protector Tap with phone/fax/modem line protection	330V/510J	off-white	4	—	Yes



WD-5196

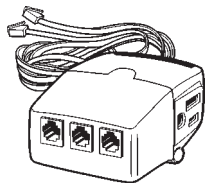
Strips				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-2271	3	6-Outlet	Computer + Modem Protector Strip with phone/fax/modem line protection	330V/510J	off-white	5	—	Yes
WD-5196	3	7-Outlet	Computer + Modem Protector Strip with phone/fax/modem line protection	330V/510J	off-white	6	—	Yes



WD-5274

Console				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-5274	3	4-Outlet	Computer + Modem Protector Console with phone/fax/modem line protection	330V/510J	off-white	2	—	Yes

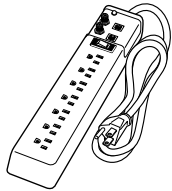
Portable Computer + Modem Surge Protection



WD-2724

Portable Computer + Modem Surge Protection				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-2724	3	2-Outlet	Portable Computer + Modem Protector Tap with ModemMate™ protection	330V/300J	black	5	Yes	—

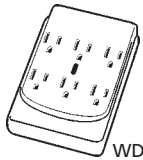
Multimedia – Computer / Modem & Cable / Coax Surge Protection



WD-5199

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
WD-5199	3	7-Outlet	Multimedia Protector Strip with phone/fax/modem line and cable/coax protection	330V/510J	off-white	4	—	Yes

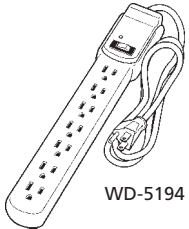
Computer Surge Protection



WD-5185

Taps

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
WD-5185	3	6-Outlet	Computer Protector Tap	330V/510J	off-white	4	—	Yes

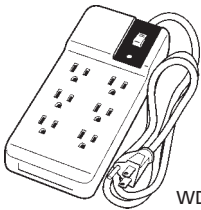


WD-5194

Strips

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
WD-5175	3	7-Outlet	Computer Protector Strip with 10' power cord	330V/510J	off-white	4	—	Yes
WD-5194	3	7-Outlet	Computer Protector Strip	330V/510J	off-white	6	—	Yes

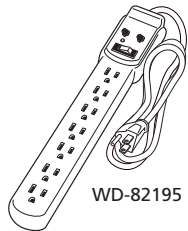
Stereo System Surge Protection



WD-2272

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
WD-2272	3	6-Outlet	Stereo Protector Strip	330V/510J	off-white	5	—	Yes

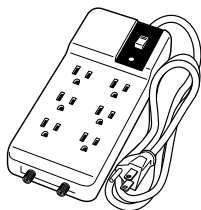
TV, VCR & Home Theater Surge Protection



WD-82195

Strips

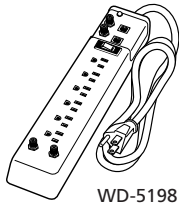
Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
WD-82195	3	7-Outlet	TV, VCR & Home Theater Protector Strip with coax line protection	330V/510J	off-white	4	—	Yes



Wd-2273

WD-2273	3	6-Outlet	TV, VCR & Home Theater Protector Strip with coax line protection	330V/510J	off-white	5	—	Yes
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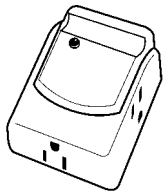
Digital Satellite & Cable TV Surge Protection



WD-5198

Cable				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-5198	3	6-Outlet	Digital Satellite & Cable TV Protector Strip with Cable/Coax, Phone and Digital Satellite line protection	330V/680J	off-white	3	—	Yes

Office Equipment Surge Protection



WD-5613

Tap				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-5613	3	3-Outlet	Office Equipment Protector Tap	330V/270J	off-white	5	Yes	—

Strip				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-5702	3	6-Outlet	Office Equipment Protector Strip	330V/100J (L-N)	off-white	12	—	—

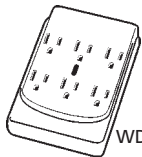
Appliance Surge Protection



WD-2278

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
WD-2278	3	1-Outlet	Appliance Protector Tap	330V/300J	off-white	5	Yes	—

Appliance Surge Protection



WD-0414

Tap				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-0414	3	6-Outlet	Home Electronics Protector Tap	330V/300J	off-white	4	Yes	—

Strip				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-0417	3	6-Outlet	Home Electronics Protector Metal Strip	330V/400J	off-white	6	Yes	—
WD-0418	3	6-Outlet	Home Electronics Protector Strip	330V/400J	off-white	12	Yes	—
WD-0425	3	6-Outlet	Home Electronics Protector Strip	330V/100J	off-white	12	—	—
WD-5723	3	6-Outlet	Home Electronics Protector Strip with 10' Cord	330V/400J	off-white	4	Yes	—



WD-0418

Surge Suppressor Cord				UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
Cat #	Cond	Type	Description					
WD-5805	2	3-Outlet	Home Electronics Protector Surge Cord with 10' 16/2 SPT-2 (13A)	400V/73J	gray	10	—	—



WD-5805

Phone, Fax & Answering Machine Surge Protection



WD-2277

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
WD-2277	3	1-Outlet	Phone, Fax & Answering Machine Protector Tap with phone line protection	330V/300J	off-white	5	Yes	—

Phone Surge Protection



WD-5631

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1-Year 100% Equipment Replacement Guarantee	Lifetime 100% Equipment Replacement Guarantee
WD-5631	n/a	n/a	Phone Line Protector Tap (phone line only)	465V/120J	off-white	5	—	—

SPECIALTY SURGE PROTECTION

StormGuard™ Electronics Surge Protection

Woods StormGuard™ Electronics Surge Protector's unique, compact design provides easy portability when protecting home electronics such as TVs, VCRs, boom boxes and modern appliances. Patented "pass-through" connection allows unit to mount directly onto the male (2 or 3 conductor) plug of the electronic equipment being protected. Indicator light shows unit is protecting. The StormGuard™ sells best at retail when cross-merchandised next to the items it is designed to protect. To help the retailer cross-merchandise this item, Woods packages the StormGuard™ on a clip strip with twelve per pack for easy placement at retail.

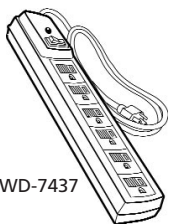


WD-7461

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	\$500 Equipment Replacement Guarantee
WD-7461	2	1-Outlet	Electronics Protector Tap	400V/70J (L-N)	white	12	Yes

Safety Surge Protector

Woods' Safety Surge Protector strip offers a practical solution where both protection from surges and protection for small children are needed. The unit also features Power Shut Down Protection, a safety circuit breaker to prevent electrical overload, a lighted power switch and an indicator light to show the unit is protecting.

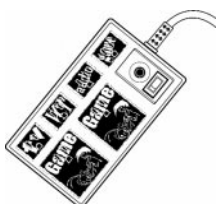


WD-7437

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	3 Year 100% Equipment Replacement Guarantee
WD-7437	3	6-Outlet 4' cord	Safety Surge Protector with slide-safe™ covers on each outlet	330V/270J	off-white	3	Yes

TV Game Surge Protector

Woods' TV Game Surge Protector was designed for the video game enthusiast in mind. The 6 outlets are labeled for each specific application and can accommodate two transformer spaced outlets. The perfect addition to any TV Game unit purchase.



WD-7451

Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	\$2,000 Equipment Replacement Guarantee
WD-7451	3	6-Outlet 4' cord	TV Game Surge Protector	330V/219J	gray	3	Yes

Industrial Grade Surge Protection

Woods' Industrial Grade Surge Protector has a tough steel construction that stands up to job site abuse. The 15 foot hi-visibility power cord and multiple outlets provide safety and power where needed, without having to mess with additional extension cords. 510 Joules provide protection for today's high-tech power tools.



WD-7407



Cat #	Cond	Type	Description	UL Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	3 Year 100% Equipment Replacement Guarantee
WD-7407	3	6-Outlet 15' cord	Industrial Grade Surge Protector with 15' hi-visibility cord	330V/510J	black	2	Yes

TRUEPROTECTION™ PROGRAM

Woods' TrueProtection offers great protection on a mid-scale budget. Innovative product designs, featuring exciting and educational packaging and high joule ratings make this the perfect program for any environment.

TrueProtection



WD-6510

Tap

Cat #	Cond/ Cord Length	Type	Description	Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1 Year 100% Warranty	Lifetime 100% Warranty
WD-6510	3-cond.	1-Outlet	Home Electronics Surge Protector	330V/ 300J	light putty	4	Yes	
WD-6511	3-cond.	6-Outlet	Home Electronics Surge Protector with power shut down protection	330V/ 300J	light putty	4	Yes	



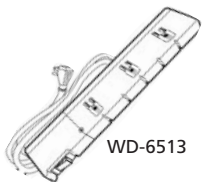
WD-6511

Strip

Cat #	Cond/ Cord Length	Type	Description	Clamping Voltage @ 500 amps/ Joules	Color	Std Pack	1 Year 100% Warranty	Lifetime 100% Warranty
WD-6512	3 ft.	6-Outlet	Home Electronics Surge Protector with power shut down protection and space saving power plug	330V/ 300J	light putty	4	Yes	
WD-6513	3 ft.	7-Outlet	Computer and Modem Surge Protector with double-sided design, phone/fax/modem protection, child safety covers, transformer-spaced outlets, a space-saving power plug and a 6' cord	330V/ 510J	light putty	4		Yes
WD-6514	3 ft.	7-Outlet	Home Theater Surge Protector with Coax/Cable protection and a space saving power plug	330V/ 510J	dark gray	4		Yes
WD-6515	3 ft.	6-Outlet	Digital Satellite/Home Theater Surge Protector with phone, cable and satellite protection, a space saving power plug and 6' cord	330V/ 680J	dark gray	4		Yes



WD-6512



WD-6513



WD-6515



CHEMICALS

Every day, everyone involved in the Electronics industry reaches for one or more tools that are chemical in origin. GC Electronics began its proud history by supplying the essential tools to those who needed products that helped maintain or improve the performance of electronic devices. From the first product, 10-302 Radio Service Cement, to the latest, Big Bath ISO, a non-HCFC based contact cleaner, GC has provided a wide range of products in containers that made practical and economic sense to the technician.

Today, GC Electronics offers both commodity electronic-oriented aerosol chemicals and small containers of adhesives, coatings, heat sinks, and specialty chemicals that are used in the maintenance and repair of electronic components. GC's offering of chemicals is unparalleled in the industry.

GC was one of the first companies to offer aerosol-packaged chemicals to the Electronics industry. Today, GC continues to research new, environmentally friendly chemicals to make the technicians' day more productive. Distributors and technicians can rely on GC to continue to monitor both scientific and legislative trends, providing them with the latest developments in Electronic chemicals.

Chemicals, like adhesives, sealants, coatings, and heat sinks are used by the gallon in Electronic production. But, if you're repairing circuits or speakers or other electronic devices, you can't afford to handle large containers of these chemicals. For almost 70 years, GC Electronics has researched the most important chemicals used in the Electronic industry and brought them to you in manageable container sizes. This effort has resulted in one of the most comprehensive lines of chemical tools in any industry. GC continues to refine and expand its offering of chemicals to meet today's challenges.

- AirJet Duster
- Freeze Mist
- HCFC Products
- Hydrocarbon Products
- Flux Removers
- Non-Aerosol Cleaners
- Adhesives
- Head Cleaners and Accessories
- Static Control Products
- Glass Cleaners
- Heat Sink Compounds
- Specialty Chemicals
- Thinners and Solvents
- Coatings
- Chemical Applications
- Technical Specifications
- **Printed Circuit Products**
- Solder Flux



Formulating the Future

GC Electronics has been the primary supplier of electronics to the electrical and electronic industries since 1930. In 1997, GC upgraded its technology base to include the new environmental laws. GC has come up with a starting line-up of contact cleaners to comply with these laws; Big Bath, Big Bath HFE and Big Bath ISO. Big Bath ISO is a new contact cleaner that is non-ozone depleting and can be sold to anyone. Plus, it contains no CFS or HCFCs and is safe on all plastics.

GC offers a complete line of chemicals for use by electronics, electrical and industrial users. In addition to offering the most up-to-date line of aerosols, GC also supplies hard-to-find non-aerosols. GC also offers a broad range of adhesives, heat sink compounds, lubricants and conformal coatings.



Air Jet®

Air Jet is formulated for the dusting and cleaning of components and equipment. Air Jet contains no flammable additives. This high pressure product is used for blowing dust, dirt and residue out of hard to reach places without scratching. Air Jet is an excellent product for both home and office use.

Applications: Computers, keyboards, printers, fax machines, audio equipment, video equipment, typewriters

Air Jet contains no ozone depleting chemicals. Anti static formulation minimizes the risk of electrostatic damage to sensitive components.

8 oz. Net Wt. Aerosol

Cat. No. 19-8508

10 oz. Net Wt. Aerosol

Cat. No. 19-8475-10

12 oz. Net Wt. Aerosol

Cat. No. 19-8475

12 oz. Net Wt. Anti-Static Aerosol

Cat. No. 19-8475-SF



Freeze Mist

Freeze Mist is a refrigerant spray used to locate thermal intermittents in electronic components such as capacitors, resistors and semi-conductors. Great for removing chewing gum from fabrics, freezing adhesives for easy removal, protecting heat sensitive components during soldering or for thermal fitting metal parts. The flow control trigger nozzle enables the user to apply the product with pinpoint accuracy and reduce product usage.

Applications: Avionics, electronic equipment, computers.

Freeze Mist contains no ozone depleting chemicals. The anti static formulation minimizes the risk of electrostatic damage to sensitive components.

6 oz. Net Wt. Aerosol

Cat. No. 19-8410-6

10 oz. Net Wt. Aerosol

Cat. No. 19-8410-10

12 oz. Net Wt. Aerosol

Cat. No. 19-8410

12 oz. Net Wt. Anti-Static Aerosol

Cat. No. 19-8410-SF

HCFC CONTACT CLEANERS

Note: HCFC cleaners can be sold to commercial users only. HCFC's are aggressive cleaners, check for plastic compatibility.



Big Bath®

Big Bath is an excellent cleaner and degreaser. This non-flammable and fast evaporating universal solvent removes dirt, oil, grease, and fluxes from electronic and electrical equipment. This non-residue cleaner/degreaser is effective on switches, motors, PC boards and other components. Big Bath cleans both polar and non-polar contaminants from metals and other surfaces. Big Bath can be used to dissipate moisture in electronic and electrical devices. Formulated with HCFCs and contains no CFCs.

Applications include switches, motors, PC boards and other components. Test for compatibility with sensitive plastics.

Environmental Data

CFC: 0%, HCFC: 92%, Cl. Solv.: 0%,
ODP: .10, VOC: 5%

6 oz. Net Wt. Aerosol

Cat. No. 19-903-6

12 oz. Net Wt. Aerosol

Cat. No. 19-902

12 oz. Net Wt. Anti-Static Aerosol

Cat. No. 19-902-SF

22 oz. Net Wt. Aerosol

Cat. No. 19-903

22 oz. Net Wt. Anti-Static Aerosol

Cat. No. 19-903-SF



Dry Kleen

A dry contact cleaner formulated to clean all electrical controls, contacts, relays and other components where oil and grease are not desired. Leaves no deposits. Will not damage electrical parts when used properly.

Applications: contacts, potentiometers, tools, machinery, electronic and mechanical components.

Environmental Data

CFC: 0%, HCFC: 50%, Cl. Solv.: 26%,
ODP: .10, VOC: 47%

16 oz. Net Wt. Aerosol

Cat. No. 19-8669



Component Bath

A non-flammable and quick evaporating general use cleaner/degreaser for removing dirt, oil, grease, and fluxes from electronic and electrical contacts in switches, motors, PC boards, etc. Non-residual and formulated to dissolve contaminants.

Environmental Data
CFC: 0%, HCFC: 97%, Cl. Solv.: 0%,
ODP: .10, VOC: 0%

16 oz. Net Wt. Aerosol
Cat. No. 19-901
22 oz. Net Wt. Aerosol
Cat. No. 19-624



SPRA-KLEEN

GC's most powerful general purpose contact cleaner consists of a combination of solvents, scientifically blended to dissolve and remove practically any type of deposit that accumulates. It is non-flammable. Cleans, lubricates and retards future corrosion. Will craze or melt some plastics, especially polystyrene.

Contains Dichlorofluoroethane.
6 oz. Net Wt. [170 gms.] Aerosol
Cat. No. 19-8666
16 oz. Net Wt. [454 gms.] Aerosol
Cat. No. 19-8666-16



Jif-Action®

Jif-Action provides dependable long lasting protection for all electronic controls and contacts. Stops noise and squeaks. Formulated to clean and lubricate all electronic and electrical contacts in switches, relays, potentiometers, as well as other electronic and electrical components. Silicone is added for greater efficiency.

Environmental Data
CFC: 0%, HCFC: 60%, Cl. Solv.: 0%,
ODP: .10, VOC: 25%

6 oz. Net Wt. Aerosol
Cat. No. 19-634
16 oz. Net Wt. Aerosol
Cat. No. 19-636



Big Bath® HFE

Big Bath HFE is the most effective contact cleaner. Safe on all plastics. One of the least toxic contact cleaner. Non-flammable.

3 oz. Net Wt. Aerosol
Cat. No. 19-2903-3
8 oz. Net Wt. Aerosol
Cat. No. 19-2903-8

HYDROCARBON PRODUCTS

Note: HCFC cleaners can be sold to commercial users only. HCFC's are aggressive cleaners, check for plastic compatibility.



Big Bath® ISO

Big Bath ISO does not deplete the ozone layer. Safe on all plastics. Contains no HCFC's. Cleans and restores relays, controls, switches, etc. Removes oil, dust and other contaminants. Leaves no residue.

9 oz. Net Wt. Aerosol
Cat. No. 19-904



GC Bath

Contact Cleaner/Degreaser for De-Energized Equipment

GC Bath is formulated with hydrocarbons/alcohol as a heavy duty cleaner/degreaser. Exceptional performance can be expected where heavy buildups of grease, oil, dirt, grime, adhesive, and other unwanted substances are encountered. This strong action product can be sprayed on the surface to break down, wash away, and clean grease from equipment, floors, work areas, engines, metal parts, and any area needed to be cleaned. GC Bath has been found to be effective to remove adhesive and adhesive over spray from surfaces. Test for compatibility with sensitive plastics. GC Bath is formulated with no chlorinated solvents and thus has no ozone depleting chemicals. No CFC's. No HCFC's.

4 oz. Net Wt. Aerosol
Cat. No. 19-724
10 oz. Net Wt. Aerosol
Cat. No. 19-725
16 fl. oz. Can
Cat. No. 19-725-16
55 gal., 360 lbs. Wt.
Cat. No. 19-725-55G



Little Bath

Hydrocarbon (petroleum) based cleaner/lubricant. Provides long lasting lubricating and oxidation protection for electrical controls and contacts.

Applications include: switches, contacts, potentiometers, tools, mechanical and electrical components.

Not for use on energized equipment. Safe for most plastics, check for compatibility.

4 oz. Net Wt. [113.4 gms.] Aerosol
Cat. No. 19-723



DE-OX-ID

Solventless, light oil based contact treatment compound with active ingredients to counteract oxidation. Lowers contact resistance, inhibits arcing, lubricates and protects against corrosion. For use on connectors, sockets, potentiometers, switch contacts, battery connections, telescoping antennas, relay and thermostat contacts. Should be applied sparingly (e.g. with a toothpick or a hypodermic needle injector) on dirty, dusty and heavily oxidized contacts. Precleaning with a solvent type cleaner is recommended. Best results are obtained with small amounts.

2 fl. oz. [59 ml.] Bottle
Cat. No. 19-1902
 4 oz. Net Wt. [113.4 gms.] Aerosol
Cat. No. 19-1906



Jiffy Bath

Consists of hydrocarbon solvents, safe for use on most materials. It possesses a balanced ratio of cleaning solvents to lubricating and protecting ingredients. Contains silicone oils which will not oxidize and will remain active as protective coating and lubricating agent for years, even under adverse environmental conditions such as high humidity and contaminated atmosphere. One of the most universal and safe contact cleaners and may be used on all rotating and sliding contacts in any types of switches or controls.

2 fl. oz. Bottle
Cat. No. 19-630
 4 oz. Net. Wt. Aerosol
Cat. No. 19-638
 10 oz. Net. Wt. Aerosol
Cat. No. 19-640
 16 fl. oz. can.
Cat. No. 19-640-16



GC Natural Citrus Cleaner

Excellent non-corrosive cleaner/degreaser with pleasant citrus scent. Safely removes most adhesives, plastics and tape residue. Created out of concern for the environment, this natural citrus cleaner is effective for removal of adhesives, grease, oil, stains, road tar, rubber marks, residue from decals, heel marks, graffiti, lipstick, release agents, and even soap film. Use where chlorinated solvents are not recommended. This can be used safely on most substrates, including painted surfaces, glass, porcelain, concrete, and is compatible with most plastics. This product does not contain ozone depleting chemicals. No CFC's. No HCFC's. Do not use as an electrical contact cleaner.

12 oz. Net Wt. Aerosol
Cat. No. 19-700

FLUX REMOVERS



General Use Flux Solv

General Use Flux Solv evaporates quickly and is excellent for the removal of most ionic and rosin fluxes from electronic components, PC boards or other surfaces requiring a general flux remover. Contains HCFC and alcohol.

Applications: PC boards, electronic components, electrical components.

Environmental Data

CFC: 0%, HCFC: 72%, Cl. Solv.: 0%, ODP: .10, VOC: 25%

12 oz. Net Wt. Aerosol

Cat. No. 19-328-12

22 oz. Net Wt. Aerosol

Cat. No. 19-328-22



Extra Strength Flux Solv

Non-flammable and fast evaporating. Extra Strength Flux Solv is excellent for the removal of ionic and non ionic fluxes from electronic components, PC boards or other surfaces requiring an extra strength flux remover. Contains Perchloroethylene.

Applications: PC boards, electronic and electrical components.

Environmental Data

CFC: 0%, HCFC: 85%, Cl. Solv.: 6%, ODP: .10, VOC: 12%

16 oz. Net Wt. Aerosol

Cat. No. 19-270



GC Flux Solv

For De-Energized Equipment

GC Flux Solv has a hydrocarbon/alcohol base. It is excellent for the removal of Ionic and Non-Ionic fluxes from electronic components, PC boards or other surfaces requiring an extra strength flux remover. Fast evaporation. GC Flux Solv is formulated with no chlorinated solvents and thus has no ozone depleting chemicals. No CFCs or HCFCs.

10 oz. Net Wt. Aerosol

Cat. No. 19-825

16 fl. oz. can

Cat. No. 19-825-16

1 gal.

Cat. No. 19-825-G



Flux Remover & Cleaner 2

Removes all types of organic flux. Pinpoint applicator supplied. Non ODC. Contains: Trichloroethylene, Carbon Dioxide and Isopropyl Alcohol.

2 fl. oz. [59 ml.]

Cat. No. 19-220

16 fl. oz. [473 ml.] Can

Cat. No. 19-229

16 oz. Net Wt. [454 gms.] Aerosol

Cat. No. 22-271



Static-Free High Strength Flux Remover

A powerful Flux Remover that will dissolve and flush away all known fluxes immediately. May cause loss of nomenclature from capacitors or like products. Can discolor some plastics. Will not harm circuit performance. Static-free formulation. Contains Trichloroethylene, Isopropanol and Carbon Dioxide.

Static-Free 12 oz. Net Wt. [340 gms.] Aerosol

Cat. No. 19-7518

Static-Free 18 oz. Net. Wt. [510 gms.] Aerosol

Cat. No. 19-7522

NON-AEROSOL CLEANERS



Isopropyl Alcohol (Anhydrous)

This extremely pure alcohol is frequently the recommended cleaner by manufacturers of tape heads, disc drives, etc. Does an excellent job of dissolving and removing oxides from recording heads, also an excellent degreaser. Leaves no residue. This is not an aerosol, but an aerosol-style can with a screw on top. Suggested for use with swabs, clean cloth, or by immersion or trigger sprayer.

16 fl. oz. [473 ml.]

Cat. No. 10-1507

1 gal. [3.29 l.]

Cat. No. 10-1507-G

GLASS CLEANERS



Glass & Plastic Cleaner

Wipes dirt, dust and grime from all glass and plastic surfaces without leaving streaks or dulling residue. Contains grease-cutting ammonia. Convenient aerosol packaging. Economical for home or industry.

14 oz. Net. Wt. [397 gms.] Aerosol

Cat. No. 10-9082



GC Glass Treatment Compound

For glass, plastics, and finished surfaces. Easy to apply and very effective in removing smudges, dirt, oily films and other deposits with a minimum amount of rubbing. Active ingredients are silicone-glycol polymers which provide a high lustre and minimize or eliminate dust attracting static. Harmless to practically any surface, will not scratch, discolor or streak.

6 fl. oz. [177 ml.] Bottle

Cat. No. 10-1756

N.S.N. 7930-01-053-3758

HEAD CLEANERS



VCR/Magnetic Head Cleaner

VCR/Magnetic Head Cleaner removes dust, dirt and oxide from record and playback heads on VCR's, cassette decks and computer drives. Evaporates quickly and leaves no residue.

Environmental Data

CFC: 0%, HCFC: 0%, Cl. Solv.: 0%,
ODP: .0, VOC 100%

2 fl. oz. Non-Aerosol

Cat. No. 19-5302

4 fl. oz. Net Wt. Aerosol

Cat. No. 19-5304

16 fl. oz. Non-Aerosol

Cat. No. 19-5302-16

1 gal.

Cat. No. 19-5302-G



Travel Dispenser

Designed for easy one-handed delivery of a wide variety of liquids onto a cloth, cleaning pad, cotton ball or other wipe-on applicators. Can conveniently apply polishes, removers or other liquid products onto the applicator eliminating direct hand contact, spillage, fumes and waste while protecting product quality. The locking top makes this product excellent for use in the technicians tool box. This dispenser is available empty or prefilled with two of your favorite GC Chemicals; Head Cleaner and Isopropyl Alcohol.

*4 fl. oz. VCR/Magnetic Head Cleaner [19-5302]

Cat. No. 19-773

*4 fl. oz. Isopropyl Alcohol [10-1507]

Cat. No. 19-770

4 fl. oz. Dispenser only

Cat. No. 19-774

*Note: These NO.'s are prepackaged with Cat. No.'s in brackets

LUBRICANTS



Lubriplate

White, lithium soap base grease lubricant that provides superior lubrication and reduces friction and wear to a minimum. Suitable for use on wiping contacts. It retains consistency over a wide range of temperatures, will not oxidize or harden and provides outstanding protection against corrosion.

1-3/4 fl. oz. [52 ml.] Tube
Cat. No. 10-2302



Phonolube

Light bodied grease made of polymerized oil, specially developed for the lubrication of small geared mechanisms such as phonographs, record changers, TV channel and record mechanisms, etc. Retains its viscosity over a wide range of temperatures. Highly resistant to oxidation. Will retain its excellent lubricating qualities for years.

2 fl. oz. [59 ml.] Tube
Cat. No. 10-1223



Reach-All Pen Oiler

High quality, non-gumming instrument oil. Tube extends and retracts. Excellent for lubricating instruments, gears, timers, clocks, guns, fishing reels, and other densely mechanized items.

1/2 fl. oz. [15 ml.] Pen Type Cartridge
Cat. No. 10-984

N.S.N. 4930-00-106-9839



Lubrex

Superior calcium stearate base grease compound for general use in industry, the shop or at home. Provides excellent lubrication for bearings, appliances, hand tools, bicycles and other sporting equipment including fishing reels and guns; also for business machines, instruments and automotive lubrication. Excellent dielectric properties.

2 fl. oz. [59 ml.] Tube
Cat. No. 10-1206



Conductive Grease & Anti-Oxidant Compound

A lithium soap base grease with zinc and graphite fillers. As a lubricant, it will dissipate static charges (use only in light load applications). Also useful for wire connectors and aluminum conduit joints. Penetrates aluminum oxide to maintain inter-strand and inter-conductor current paths. Guards against oxidation, improves conductivity and produces a cooler connection.

1 oz. Net Wt.
Cat. No. 19-820



Pocket Oiler

High grade electronic oil in a leakproof see-through plastic barrel container with pocket clip attached. Accurately dispenses one drop at a time. For use on electronic and electrical devices, clocks, office machines and sporting goods. Not refillable.

0.135 fl. oz. [4 ml.]
Cat. No. 10-8885



Tunerlub

Special lubricant for high frequency contact applications such as television tuners. Purified without traces of metals or metal oxides. Gives lasting protection against oxidation and corrosion. Especially important for use on equipment operated in corrosive atmospheres such as seashores or in industrial areas.

1-3/4 fl. oz. [52 ml.] Tube
Cat. No. 10-2610

N.S.N. 9150-01-054-0546



Graphite Lubricant

Dry powdered graphite is the finest lubricant for metal, wood, plastic, and rubber. (No solvents to harm plastics.) Guards against sticking and dirt build up. Reduces wear and corrosion. Ideal for many uses including locks, hinges, doors, wheels, and rubber parts.

1-1/8 oz. Net Wt.
Cat. No. 19-821



Teles-Oiler

Highly refined natural petroleum oil for general purpose lubrication on motors, small gears, sliding mechanisms and others. Rust and oxidation inhibitor. Includes a wetting agent for better penetration. A special feature is the plastic container with a telescoping spout which pulls out to 7".

4 fl. oz. [118 ml.] Bottle
Cat. No. 10-9410

N.S.N. 4930-00-092-3912
 N.S.N. 4930-00-131-2871



GC 70
Rust Penetrant & Lubricant

Effectively cleans most surfaces of grease, tar, grime, and contains a long lasting lubricant that continues to lubricate long after other products have evaporated. Use on dies & molds, tools, vending equipment, windows, doors, locks, rusted bolts or fittings, linkages, cables, chains, cranks, electronic gear, battery terminals, plus thousands of other uses.

10 oz. Net Wt. Aerosol

Cat. No. 19-070

4 oz. Net Wt. Aerosol

Cat. No. 19-074



Sili-Spray

Quality silicone lubricant. Handy aerosol features adjustable 3-way valve. Dispenses lubricating film either light, medium, or heavy according to need. Leaves no residue buildup. Ideal for home, office, workshop, hinges, slides, and other moving parts on automobiles, boats, appliances, toys and drawers (wooden types). May be painted over.

4 oz. Net Wt. [113.4 gms.] Aerosol

Cat. No. 19-600



Formula 70

Formula 70 has the ability to lubricate, dispel and remove moisture, penetrate to free corroded parts and provide a protective shield against rusting and corrosion. Will be appreciated by owners of automobiles, motorcycles, snowmobiles and campers as it dries and protects cables and distributors; lubricates and prevents squeaks in chandrives, locks, windows and sliding seats. Provides maintenance for doors, windows, hand tools, power tools, sliding doors, electrical appliances, locks, hinges and garden tools. Also used on firearms, rods and reels, motorboats (wet engines) and a host of other uses.

Meets Mil. Spec.: MIL-C-23411-A

Meets Fed. Spec. BB-C-101B

12 avdp. oz. [340 gms.] Aerosol

Cat. No. 10-700



Dry TFE

GC Dry TFE is an all purpose dry film lubricant and release agent that contains minute Teflon® particles to lubricate where a dry lubricant is needed. Excellent as a mold release and for potting compounds. Temperatures range: -300° F to +500° F. (Teflon is a registered trademark of Dupont.)

4 oz. Net Wt. [113.4 gms.] Aerosol

Cat. No. 19-810

ADHESIVES

GC Electronics offers three basic types of adhesives:

1. **EPOXY CEMENTS:** Among the strongest and most universal of all bonding materials. They consist of two parts which must be mixed before applications. Epoxies dry without heat or pressure at room temperature through catalytic action.
2. **CYANOACRYLATE ADHESIVES:** Do not require the use of an added catalyst, nor heat or pressure. Dries within seconds through the process of polymerization.
3. **SOLVENT-RELEASE ADHESIVES:** Resins or polymers in solution. This general category also includes welding type adhesives which create a bond of exceptional strength.

Epoxy Cements

Two-component, solventless cements which form an exceptionally strong bond (up to 4,000 psi) and they do not shrink on curing. May be used to cement porous and non-porous substances including all metals, glass, ceramics, most plastics, cardboard, wood, rubber, and fiber. They resist moisture, most solvents, acid, and alkalis. The consistency of epoxy is that of semi-fluid or putty. They have a tendency to "fill-in" and will produce strong bonds even if the parts to be cemented do not match perfectly. Epoxy cures at room temperature, but elevated temperatures (up to 80°C) may be employed to speed up the curing time. All GC epoxy cements are easy to prepare as they require a 50/50 composition to be mixed. This can be judged when squeezing out the tube, for the exact ratio is not critical. The working life, often called "pott life" of the mixture, is the time span from mixing the two parts until the chemical reaction starts to harden the compound. A product with short working, and correspondingly short curing time, is indicated where a single repair is to be made and the mixture can be applied immediately after preparation. For production purposes, a type with long pott life should be selected.



Quik Stik 5 Minutes Set

Clear, fast curing epoxy adhesive. In view of its short pott life, use is recommended when a single repair must be made and the mixed adhesives can be used within one or two minutes. Cemented items can be safely handled within eight to twelve minutes, with full hardness obtained after several hours. This cement is relatively thin in consistency and should be used to cement closely matching surfaces. The glue line is usually invisible.

Pkg. of two 1/2 fl. oz. Tubes
Cat. No. 10-114

Double Syringe 30cc
Cat. No. 19-822



Epoxy Glue 5 Hours Set

Provides an exceptionally hard and strong bond. Good dielectric properties. Gray-white in color with fillers added to increase viscosity and make it thixotropic (non-running). May be used to fill gaps or to replace broken sections. Bonds may be over-filled and filed or sanded after curing.

Pkg. of two 2 fl. oz. [59 ml.] Tubes
Cat. No. 10-347

N.S.N. 8040-00-281-2308



Epoxy Super Glue 5-6 Hour Set

Versatile epoxy cement particularly suitable for cementing non-porous materials. Cures at room temperature. Bond strength of over 3000 psi. Will not shrink through curing. Resistant to water, solvents, heat, cold and fungus. Excellent dielectric properties. Mix in equal parts from two tubes.

Pkg. of two 3/4 fl. oz. [44 ml.] Tubes
Cat. No. 10-100



GC Potting Epoxy

Black opaque epoxy used for potting and encapsulating electronic circuits. Use to environmentally protect or conceal circuits. This product is excellent when used with Chassis Boxes. Working Time (Pott Life), 1 Hour, Mix ratio: 1 to 1, Temperature Range: -40° to 180° F.

Electrical Properties:
Volume Resistivity: 10^{12} @ 300°F
Dielectric Constant: 4.2 (10^4 CPS @ 77°F)
Dissipation Factor: 0.014 (10^4 CPS @ 77°F)ⁿ

8 oz. Net Wt. Kit (2 - 4 oz. Bottles)
Cat. No. 19-823

18 oz. Kit (2 - 9 oz. Bottles)
Cat. No. 19-824

2 gal. Kit (2 - 1 gal. Containers)
Cat. No. 19-824-2G



Conductive Epoxy

Electrically conductive two part for attaching electrical components. Mix ratio 1:1. Pot life 40 minutes. Cure 24 hours. Vol res. 5.0 x 10⁻³ ohm-cm max.

6 gms. Net Wt. Kit
Cat. No. 19-2092



Epoxy Putty

GC Epoxy Putty is a two part epoxy in a single tube. Amount needed is cut off and kneaded together. Two minute work life. Dielectric strength: 400 volts/mil. Sets hard in 20 minutes, may be drilled and tapped. Max. useful temp. 300° F.

Applications: Plumbing repairs, works under water. Electrical, use in place of tape.

4 oz. Net Wt. [113.4 gms.] Tube
Cat. No. 19-348

Cyanoacrylate Adhesives & Debonders

"Instant bonding" cyanoacrylate adhesives cure in seconds, do not depend on evaporation of solvents and require no clamping. They are colorless and moisture resistant. They are ideal for bonding metals, plastics, rubber, glass and ceramics to each other or to dissimilar materials. Bonding strength up to several thousand psi is possible making them among the strongest adhesives available. These adhesives are economical, as only a drop is required. The best type should be determined by experimentation. Use them to repair broken plastic cabinets and other plastic items, attaching nameplates and rubber feet to panels and chassis, cementing broken ceramic glass and rubber items, repairing jewelry, etc. Porous surfaces may be bonded with Gelweld No. 19-177. The average setting time is between 10 and 100 seconds, after which the cemented articles can be handled. These adhesives may even be used to bond surfaces which are normally difficult to cement, such as teflon, polyethylene, vinyl, silicone rubber and glass.



GR-R-RIP

World famous Ethyl Cyanoacrylate rapid bonding adhesive. Bond strength not affected by temperatures from -112°F to +212°F (-80°C to +100°C).

0.075 fl. oz. [3 gm.] Bottle
Cat. No. 19-115



GC Super Glue Regular Formula Ethyl Cyanoacrylate Adhesive

Medium viscosity formula for efficient wicking action, faster curing time. Excellent for bonding any combination of plastic, rubber or metal parts. This grade is ideal for small or fine work on non-porous, smooth surfaces. It fills gaps of .003-.005". Highly resistant to acid, alkali, alkali water, solvents and fungus. Non-toxic.

Meets Mil. spec. MIL-A-46050B Type 1 Class 2.

0.075 fl. oz. [2 ml.] Tube
Cat. No. 10-120



GELWELD

GEL Cyanoacrylate Adhesive

Ethyl Cyanoacrylate super strength adhesive in a "gel" form - will not drip or run. Fills gaps well.

0.101 fl. oz. [3 ml.] Tube
Cat. No. 19-117



GC Super Adhesive Ethyl Cyanoacrylate Adhesive

Forms strong, lasting bonds in seconds between either similar or dissimilar materials—metal, porcelain, plastic, glass, most rubbers, hardwoods, and other non-porous materials with smooth, close-fitting surfaces. The bond resists softening at temperatures up to 320°F (160°C). Your most versatile adhesive for bonding, attaching, fixturing. Cures to a strength of 5000 psi; because it is solvent-free, there is no shrinking during curing and no solvent fumes. Fills gaps to .003".

Meets Mil. Spec. MIL-A-46050C Type 1 Class 2.

1 fl. oz. [29 ml.] Bottle
Cat. No. 10-128

Solvent Release Adhesives

Most lacquer, rubber or plastic base adhesives are the solvent-release type. They are universal and easy to apply with no special preparation required. However, they are limited in their application as they are not suitable for cementing non-porous surfaces such as metals, glass, glazed ceramics and others, due to the inability of the solvent to evaporate quickly, except around the edges. They do work very well if one or both of the bonding surfaces consists of material which has some porosity.



General Purpose Plastic Cement

A solvent-release adhesive with a special Nitrocellulose Lacquer Base. The bond is usually invisible and hard, but not brittle. Adheres especially well to plastics, paper, leather, ceramics and metal. Quick-drying and waterproof. Widely used by repairmen, model builders, hobbyists and do-it-yourselfers.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-324

N.S.N. 8040-00-063-1387

8 fl. oz. [237 ml.] Bottle with Brush

Cat. No. 10-328



GC Bond

Thermoplastic adhesive based on synthetic components with unusually strong bonding characteristics to most materials. Produces a waterproof, resilient and long-lasting flexible bond. Light tan in color. GC Bond's uses range from cementing paper and cardboard to cementing electronic components to circuit boards and chassis. Sticks well to all metals and glass. Dries in 15 to 30 minutes.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-4302

N.S.N. 8040-00-682-6690

8 fl. oz. [237 ml.] Bottle with Brush

Cat. No. 10-4308

N.S.N. 8040-00-181-7710

16 fl. oz. [473 ml.] Bottle

Cat. No. 10-4316

N.S.N. 8040-00-230-9676



Service Cement

A quick-drying and waterproof clear adhesive which forms a strong, hard but vibration-resistant bond with minimal shrinkage. A true universal adhesive for shop, industry, home and hobby use. Ideal for speaker repairs. May also be used for gluing porous or semi-porous materials to each other or to metals, plastics, etc. Not suitable for metal-to-metal, glass-to-metal or other non-porous to non-porous surfaces, for which Perma-Bond, GR-R-RIP or epoxy cements are more suitable.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-302

1 gal. [3.8 l.] Can

Cat. No. 10-310



Rubber-to-Metal Cement

A heavy-bodied, black rubber-based cement with outstanding bonding qualities to many materials such as natural and synthetic rubber, metal, wood and plastics. Dries quickly and produces a lasting, flexible bond which often exceeds the strength of the material itself. Used to cement any rubber or flexible plastic part to cabinets, chassis or panels; also for gaskets, weather strips, etc.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-352

N.S.N. 8040-00-261-8450



Acrylic Cement

Consists of solvent for acrylics (plexiglass, lucite and others), slightly thickened with dissolved acrylic resin. It actually "welds" items made of plexiglass. The joint is usually invisible and stronger than the material itself. Cements many items used in electronics for decorative or functional purposes as well as acrylic signs, art objects and decorative pieces.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 19-4002

N.S.N. 8040-00-209-1346

N.S.N. 8040-00-259-6181

N.S.N. 8040-00-503-0315

8 fl. oz. [237 ml.] Bottle with Brush

Cat. No. 19-4008

N.S.N. 8040-00-063-1381



Vinylite Cement

Vinyl resin-base cement that is waterproof, almost invisible and has excellent resistance to moisture, most acids and alkalis. Used to cement items made of rigid or flexible vinyl, wood, cardboard, paper, metal, plastics, and glass. Very flexible. Lends itself particularly well to items where a rigid bond is not desirable.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-5802

N.S.N. 8030-00-264-3838



General Adhesive can be used on any surface

Spray Adhesive

This contact adhesive bonds paper, cardboard, plastic, glass, rubber, cloth, foil, metal, etc. Excellent for placing labels.

Cat. No. 19-712

RTV

Silicone Rubber Adhesive/Sealant



One-component elastomer cures to a tough, rubbery solid when exposed to moisture in the air. Designed to fulfill industrial and electronic service sealing and bonding requirements, this sealant has excellent adhesive strength, high elongation and outstanding insulation and heat resistance qualities. Develops primerless adhesion to a variety of materials, including metal, glass, most wood, silicone resin, vulcanized silicone rubber, ceramic, natural and synthetic fibers; most plastics and painted surfaces. Resists weathering, vibration and exposure to oil, moisture, ozone, and temperatures from sub-zero to 450°F. Cures to a tack-free surface in 20 minutes. Full cure, 24 hours. Ideal for many sealing, bonding and insulating applications, including general

electrical insulation, potting exposed electronic components, bonding gaskets for heating and refrigeration units, formed-in-place gaskets for gear boxes, compressors, pumps and outdoor motor covers, pressure sealing of aircraft cabins and cockpits, caulking sheet metal stacks, ductwork and equipment housings, and as an anti-abrasion coating.

As Cured—Electrical

- ASTM D 257 Volume Resistivity, ohm-cm – 1.5×10^{15}
- ASTM D 149 Dielectric Strength, volts/mil – 550
- ASTM D 150 Dielectric Constant, at 60 Hz – 2.8 at 100 Hz – 2.8 at 100 kHz – 2.8
- ASTM D 150 Dissipation Factor, at 60 Hz – 0.0015 at 100 Hz – 0.0015 at 100 kHz – 0.0015

Silicone Rubber Sealant meets the following requirements:

- FDA: FDA regulation No. 21 CFR 177.2600 when fully cured and washed.
- UL: Recognized for service to 302°F (150°C) where elongation is not necessary.
- Meets Mil. Spec. Mil-A-46106A Type 1,
- Meets Fed. Spec. TT-S-001543A

*3 fl. oz. [90 ml.] Tube w/Dispensing Nozzle Clear

Cat. No. 10-150

* Manufactured for GC Electronics by Dow Corning

Electronic Grade Silicone Sealant/Adhesive



One part non-corrosive, neutral cure electronic grade silicone sealant. Will remain flexible from -70° F to +300° F. (-60° C to +200° C) An excellent adhesive for many electrical and electronic applications where corrosion to metals is a problem. Good dielectric properties, high surface resistivity and resists electrical tracking. Meets the requirements of Mil-A-46146A-Type 1; meets the requirements of FDA status, FDA regulation #177.260

3 fl. oz. [90 ml.] Color: Clear

Cat. No. 19-155

Silicone Caulk Tube



GC Industrial RTV Silicone is a one-part high modulus Sealant/Adhesive and Gasketing material. Remains flexible from -80°F to +400°F (-63°C to +205°C). Will not crack, crumble or dry out. Unaffected by ultra-violet, weather, most chemicals and solvents. Adheres to metal, wood, glass, fiberglass, ceramics, fabrics and many plastics. Meets the following specifications: Agriculture Canada; USDA; FDA regulation No. 21 CFR 175.105; Mil Spec Mil-a-46106A-Type1 and US Fed. Specs. TT-S-001543A Class B and TT-S-00230C Type 2, Class B.

10.2 fl. oz. [301.6 ml.] Caulk Tube

Cat. No. EL-615

GC HEAT SINK COMPOUNDS

The technology of today's electronic devices has increased current handling capacity. The additional heat buildup places great demands on heat sink materials. GC offers a complete line of heat sink compounds to meet these demands. The HTC product offers over twice the thermal conductivity of conventional products and is available in silicone and non-silicone versions. The water-soluble heat sink grease offers excellent thermal conductivity and easy cleanup. The standard silicone and non-silicone products continue to meet most requirements. See chart for typical properties.

Silicone (Z9)

Industry standard zinc oxide filled silicone heat sink grease for most applications. Will not soften at elevated temperatures or dry out or harden. Meets Mil. Spec. C-47113.

1 fl. oz. [29 ml., 2.3 oz. avdp.] Tube

Cat. No. 10-8109

6.5 gms. avdp. Tube

Cat. No. 10-8108

1 lb. [454 gms.] Can

Cat. No. 10-8106



HTC (High Thermal Conductivity)

Higher thermal conductivity formula has all the same benefits of conventional heat sink greases, plus is exceptionally stable in high humidity applications. Available in silicone and non-silicone versions.

Silicone Based, 1 oz. avdp. [28.4 gms.] Syringe

Cat. No. 10-8135

Non-Silicone Based, 1 oz. avdp. [28.4 gms.] Syringe

Cat. No. 10-8130

1 lb. [454 gms.] Jar

Cat. No. 10-8135-1





Type 44 Non-Silicone

Compounded with 100% synthetic base stocks. Features excellent heat transfer efficiency, thermal stability, high flow rate, no separation, bleed or migration typical of silicone based greases. Meets Bellcore Spec. KS21334 and Mil. Spec. C-47113.

1/2 fl. oz. [1.46 oz. avdp., 41.4 gms.] Jar

Cat. No. 10-8118

2.5 avdp. oz. Tube

Cat. No. 10-8120

1 lb. [454 gms.] Jar

Cat. No. 10-8126



Water Soluble

Easy clean-up, non-migrating. Eliminates use of solvents, is non-reactive, exhibits excellent dielectric properties.

1 oz. avdp. [28.4 gms.] Syringe

Cat. No. 10-8132

Heat Sink Properties (Typical)

Tests	Test Methods	10-8109 Standard Silicone	10-8118 Standard Non-Silicone	10-8135 H.T.C. Silicone	10-8130 H.T.C. Non-Silicone	10-8132 Water Soluble Non-Silicone
Appearance	Visual	White Paste	White Paste	Off-White Paste	Off-White Paste	White Paste
Consistency - Penetration	ASTM D-217	290	260	290	305	250-350
Specific Gravity 60° F	ASTM D-70	2.4	2.5	2.5	2.2	2.8
Bleed, 30 Hrs. %Wt. 150°C 200°C 300°C	FTM-321 (Modified)	<0.5	<0.5	<0.2	<0.2	1.00
Evaporation, 30 Hr. %Wt. 150°C 200°C 300°C	FTM-321 (Modified)	<0.1	<0.1	<0.1	<0.1	1.00
Thermal Conductivity CAL/SEC/cm K	Hot Wire Method	1.8 x 10-3	1.8 x 10-3	3.4 x 10-3	3.3 x 10-3	28.2 x 10-3
Dielectric Strength 0.050" gap volts/mil.	ASTM D-149	400	420	300	300	265
Dielectric Constant 1000 HzD-150	ASTM 4.9	4.5	4.9	4.9	5.02	
Dissipation Factor 50 Hz, Ohm-cm 1000 Hz, Ohm-cm	ASTM D-257	0.005 0.001	0.003 0.003	0.002 0.002	0.002 0.002	0.0022
Volume Resistivity OHM-CMD-257	ASTM 2 x 10-15	1 x 10-15	2 x 10-13	9 x 10-11	2.0 x 10-15	
Operating Range °C		-40 to 400	-22 to 390	-40 to 400	-22 to 390	-40 to 150
Arc Resistance, sec		130	130	250	240	

THINNERS & SOLVENTS



Polystyrene Q-Dope Thinner

For thinning polystyrene base coil dopes and cements. Can also be used for cementing polystyrene parts.

2 fl. oz. [59 ml.] Bottle

Cat. No. 10-4102

N.S.N. 8010-00-063-1376

N.S.N. 8040-00-902-1159



Paint Thinner

All purpose mineral spirit type thinner and solvent for paint and varnish base products.

2 fl. oz. [59 ml.] Bottle

Cat. No. 10-6702

N.S.N. 8010-00-054-1521



Radio-TV Cement Solvent

Fast acting solvent formulated for use in speaker repair. Dissolves cement on speaker cones, spiders, frames, voice-coils. May also be used as a thinner for all lacquer type cements.

2 fl. oz. [59 ml.] Bottle

Cat. No. 10-312

8 fl. oz. [237 ml.] Bottle

Cat. No. 10-318

16 fl. oz. [473 ml.] Bottle

Cat. No. 10-320

N.S.N. 8010-00-775-5893

1 gal. [3.8 l.] Can

Cat. No. 10-321



Print Kote Solvent

A solvent to remove silicone and other types of protective coatings from PC boards. Required when modifying PC boards or replacing components where the protective coating interferes with the desoldering and resoldering operation.

2 fl. oz. [59 ml.] Bottle

Cat. No. 22-209

N.S.N. 6810-00-711-2185

COATINGS



Silver Print (Conductive Paint)

For PC repair or add-on circuit traces. Pure silver in lacquer based carrier may be brushed on for either conductors or shielding. Connections have equal or better conductivity than copper (0.1 ohms per square).

1/2 troy oz. [15.69 gms.] Bottle

Cat. No. 22-201

1 troy oz. [31.1 gms.] Bottle

Cat. No. 22-202



Nickel Print (Conductive Paint)

A quick drying lacquer-based coating, pigmented with powdered nickel. For repair and modification of printed circuits. Conductivity is 5 to 6 ohms per square.

2 fl. oz. [59 ml.] Bottle

Cat. No. 22-207



Red Insulating Varnish

Alkyd-based compound, especially resistant to environmental extremes including oils, water and most acids and alkalis. Retains its high dielectric strength even if wet and is, therefore, especially adaptable to the insulation of electrical and electronic devices or components which may be operated in a very humid climate and up to 250°F (121°C). For general insulation of coils, transformers, motor windings and for all-around protection against oxidation and atmospheric attacks.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-9002

N.S.N. 5970-00-901-5331

8 fl. oz. [237 ml.] Can

Cat. No. 10-9008



Print Kote Conformal Coating

The ultimate coating for PC boards provides a protective shield to resist environmental contaminants. Prevents arcing and shorting. Air dry 15 to 30 minutes. May be baked at 200°C for 30-60 minutes for extreme high temperature applications.

2 fl. oz. [59 ml.] Bottle

Cat. No. 22-203

N.S.N. 8010-00-711-2173

5 oz. Net Wt. [142 gms.] Aerosol

Cat. No. 22-204

N.S.N. 5970-00-223-7275

11 oz. Net Wt. [311 gms.] Aerosol

Cat. No. 22-245

N.S.N. 8030-00-497-1328



Insulating Coating

Heavy-bodied, black insulating coating which replaces insulating tape in applications where wrap-around tape could not readily be applied. This compound dries quickly to a strong pliable finish that will not crack, peel or chip. It is water and oil proof and may be used outdoors to insulate any electrical terminal, connection or wire splice. Excellent for providing insulation on handles, etc.

Voltage rating 700v/mil (min.)

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-1762

16 fl. oz. [473 ml.] Bottle

Cat. No. 10-1766



Corona Dope

This lacquer has excellent dielectric, arc and corona resisting properties, and protects surfaces against moisture. Achieved with a quick drying, black lacquer insulating coating, based on a cellulose resin. Temperature range: to 325°F (163°C). This lacquer is used to coat flybacks, coils, transformers to improve the insulation and weather resistant properties of wires. Dielectric Strength: 3,800 Volts/Mil Min.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-4702

N.S.N. 8030-00-778-4278

N.S.N. 5970-00-063-0685



Q Dope

Solution of pure polystyrene in solvents. Dries fast and leaves a clear, protective coating on coils and transformers, with no or minimal effect on inductive values. May also be used as a cement for molded or fabricated items made of polystyrene.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-3702

N.S.N. 8010-00-868-3866

N.S.N. 5970-00-044-6790

N.S.N. 5970-00-982-3909

4 fl. oz. [118 ml.] Bottle with Brush

Cat. No. 10-3704

N.S.N. 5970-01-047-9265

N.S.N. 8040-00-598-9748

1 gal. [3.8 l.] Can

Cat. No. 10-3709

N.S.N. 8030-00-182-6416



Red-X Corona Dope

Thixotropic polyester-base red enamel that will not drip or sag, has excellent adhesion and is oil and waterproof. Temperature range: to 220°F (104°C). An excellent insulator, corona and spark preventive coating. For moisture-proofing and insulation of high voltage coils and other high voltage components, especially in high humidity problem areas. Also recommended for rotor and field coils in motors, to coat transformers, etc. Dielectric strength: 1,700 Volts/Mil Min., dielectric constant: 3.7.

2 fl. oz. [59 ml.] Bottle with Brush

Cat. No. 10-5002

N.S.N. 8040-00-779-2866

12-1/4 oz. Net Wt. [361 gms.] Aerosol

Cat. No. 10-5012



Acrylic Plastic

Transparent (glass-like) lacquer. Seals, protects, insulates and tarnish-proofs any object to which it is applied. This coating has high dielectric strength and resists moisture, caustic solutions and alcohols. Used to coat electronic component and connections as well as metal or art objects (to protect against tarnish and corrosion).

Meets Fed. Spec.: TT-L-50-G Type II.

11 oz. Net Wt. [312 gms.] Aerosol
Cat. No. 10-8665

N.S.N. 5970-00-279-7091



EMI-RFI Shield

Effective method for protecting circuitry from external interference or for keeping low level signals inside circuit housing. Conductive graphite coating in a tough binder that requires no undercoat. Adheres well to most plastics and also glass. May be applied in more than one coat for severe interference problems. Sheet resistance of properly applied Shield is approximately 7.5 ohms/square @ 1 mil. Point-to-point 10 ohms @ 1 inch spacing @ 1 mil. Maximum service temperature 180°F. Shielding ability generally ranges from 30-50 dB at 2 mils in conventionally-used RF devices. Full R.F. spectrum test have not been conducted and may be different in your application. Approximately 12 sq. ft. coverage.

12 oz. Net Wt. [340 gms.] Aerosol
Cat. No. 10-4807

2 lb.
Cat. No. 10-4807-2LB

SOLDER FLUX



Liquid Solder Flux

Completely non-corrosive liquid solder flux consisting of a solution of special rosin in alcohol. Contains no traces of acids or chlorides and is completely safe to use on even the most delicate electronic equipment.

2 fl. oz. [59 ml.] Bottle
Cat. No. 10-4202

16 fl. oz. [473 ml.] Bottle
Cat. No. 10-4216



Soldering Paste

A strong flux for soldering sheet metal parts, bus wires to steel chassis, tinning and cleaning of soldering iron tips, etc. Not recommended for electronic or printed circuit soldering.

2 fl. oz. [59 ml.] Bottle
Cat. No. 10-1207



Solder Flux

A flux for all metals, as effective as acid or chloride types but non-corrosive. Solders even hard-to-solder metals such as aluminum, zinc-based alloys, steel, etc. Ideal for soldering bus and ground wires to aluminum and steel chassis, to hermetically seal lids to metal cases, for pot-tinning of copper and brass parts, etc. Not recommended for electronic wiring, including printed circuits.

2 fl. oz. [59 ml.] Bottle
Cat. No. 10-200



Water Removable Soldering Paste

Lubricates, cleans, fluxes and rinses away.

2 fl. oz. [59 ml.] Bottle
Cat. No. 10-202

SPECIALTY CHEMICALS



Odor Neutralizer

Heavy duty. Formulated to eliminate the toughest odors from all washable surfaces. Odors are eliminated at their source and the scientifically crafted formula continues to work with a long lasting residual effect. Eliminates odors caused by organic decay, animals, mold and mildew, smoke, fires, sewage and chemicals. Non-Toxic and Biodegradable.

4 fl. oz. [113.4 g.] Bottle
Cat. No. 19-708



Belt & Drive Non-Slip

Prevents slippage in mechanical or electro-mechanical devices which are driven with cords, belts, pulleys and drives. Restores proper functions on belts and drive pulleys in turntables, record changers and tape recorders, especially where the rubber parts have hardened and/or become slick and cause slippage.

2 fl. oz. [59 ml.] Bottle with Brush
Cat. No. 10-8602



High Voltage Putty

Silicone rubber compound with excellent insulating characteristics. It will never harden, will not shrink and has good adhesive properties. Supplied in strips which are approximately 1" wide and 1/4" thick (approximately 18" length). Provides a corona and arc suppressing coating in high voltage systems. Especially useful for coating sharp points, edges or corners. Also useful to form gaskets and seals where a putty-like, non-hardening property is desired. (Approx. 550 Volts/MIL Di-electric strength).

1-1/4 oz. Net Wt. [36 gms.]
Cat. No. 10-8880



Anti-Seize Compound

Specifically engineered to resist seizing and corrosion on any threaded surface up to 2100°F. This is an excellent product for eliminating seizing of soldering iron tips, especially threaded types. Will prevent seizing, "cold-welding" and fretting corrosion of all metal threads; a preliminary degreasing with Trichloroethane or similar solvent is suggested for maximum benefit. Apply by dipping, brush, etc.

1 fl. oz.
Cat. No. 10-1230



Silicone Compound

Soft, inert silicone grease with excellent dielectric properties. Usable over a wide range of temperatures. Its consistency is vaseline-like and it is white opaque in color. It provides an excellent dielectric coating which excludes moisture and prevents high voltage arcing. Applicable to components in the high voltage section of TV receivers. Protects ignition systems in automobiles and boats, in addition to providing an outstanding corrosion resistant coating on exposed metal surfaces, such as TV antenna terminals as well as general rustproofing. This compound also makes an excellent lubricant for rubber or plastic.

1 fl. oz. [29 ml.] Tube
Cat. No. 10-8101

N.S.N. 6850-00-268-7963

1 gal. [3.78 l.] Can
Cat. No. 10-8102

1/3 fl. oz. [10 ml.] Chem-O-Jector
Cat. No. 10-568



Static Null®
Static Preventive

Neutralizes and prevents static electricity in a wide variety of applications. May be used on circuit boards, carpeting, clothing, cabinetry or generators of static electricity. One application lasts for weeks. An excellent maintenance area product for use on test equipment, circuits being serviced and work surfaces.

Static-Free 8 oz. Net Wt. [226.8 gms.] Aerosol
Cat. No. 19-1004



Bee, Wasp & Hornet Killer

Kills insects up to 12 feet away.
Dielectric strength: 30KU/25mm.
15 oz. Net Wt. [425 gms.] Aerosol
Cat. No. EL-013



Cold Galvanizing Compound

Cold Galvanizing Compound stops rust and corrosion by forming a galvanic coating that adheres to iron and steel. 95% pure zinc fluid compound that is applied by spraying. Dries to a gray matte finish that will not crack or peel. Applications include machinery, equipment, outdoor towers, or any items exposed to the elements of weather.
14.5 oz. Net Wt. Aerosol
Cat. No. EL-100

ACCESSORIES



Squeeze Bottle & Squeeze Riser

These reliable bottles accurately dispense solvents in the required amounts in the proper location. For use with GC Bulk Chemicals, wipes and brushes. Can be used safely with all GC chemicals. The squeeze riser professionally dispenses chemicals without using an aerosol.

4 oz. Squeeze Bottle
Cat. No. 19-780
4 oz. Professional Squeeze Riser
Cat. No. 19-781



"The PUMP"™

"The Pump" is a new air-powered spray bottle that provides an environmentally conscious alternative to conventional aerosols. The refillable, reusable spray bottle uses air as a propellant with its self-contained "Air Pump." Save money with "The Pump" by buying liquid solvents in bulk. This durable unit replaces the use of aerosol cans. "The Pump" provides an excellent cleaning alternative to aerosols. Use with cleaners, degreasers, alcohol, CFC's, HCFC's and other chemicals.

3 fl. oz. Pump Bottle
Cat. No. 19-769
6 fl. oz. Pump Bottle
Cat. No. 19-763



Needle Tip Chemical Bottles

GC bottles for quantity chemical use when buying in bulk. These bottles allow you to work with precision and buy economically. Use polyethylene bottles for trouble-free dispensing of oils, mixtures and other liquids.

4 oz. Size
Cat. No. 10-284



GC Touch Dispenser

Stops waste. Dispense only as much fluid as needed for the job. Saves time and effort. No stopper or cap to remove. One-handed touch on the dish dispenses the required amount of fluid, leaving the other hand free. Prevents contamination. Liquid in bottle stays clean until used. Fluid pumped into dish doesn't drip back into bottle. Hinged lid protects dish when not in use. Use with all GC cleaner/degreaser and defluxing solvents. Not for use with iodine, acids or bases.

4 oz. Bottle with Pump
Cat. No. 19-764
6 oz. Bottle with Pump
Cat. No. 19-766
8 oz. Bottle with Pump
Cat. No. 19-768



Chemical Injector

Needle type injector, supplied with 1 oz. vial. Ideal for contact cleaners, light oils, etc.

Cat. No. 8383
N.S.N. 4930-01-038-4337



Chem-O-Jector

Plunger type applicator for all grease type or semi-liquid chemicals. Made of polyethylene with neoprene plunger unaffected by most chemicals. Length: 5-1/2" (plunger extended).

6 cc 2 fl. oz.
Cat. No. 8887



Lubricator

Small applicator for oils and greases. Plunger type design with extension tube for hard-to-reach places. Length: 2" with 4" tube.

1.4 cc
Cat. No. 8690
N.S.N. 4930-00-975-9541



GC Trigger

An all purpose consumer sprayer for those applications requiring a smaller spray pattern. The 3-position nozzle allows spray or stream applications. Shipped in the "off" position, this is a true "shipper" unit. This unit fits most glass or plastic containers with a threaded top. The dip tube is 7-1/4" long to fit GC's non-aerosol containers. This trigger is compatible with all GC chemicals.

16 oz. Bottle with Trigger
Cat. No. 19-765
Trigger
Cat. No. 19-830



GC Wipes

Soft non-woven GC wipes with the strength of polyester rayon. Safe for critical applications. Provides excellent contamination control on precise instrumentation, semi-conductors and other critical uses.

Applications: for cleanroom applications; resistant to most solvents, alcohols and dilute acids; cleaning photo processing equipment; high liquid retention; wiping laboratory instrumentation; will not abrade surfaces; computer screens; contamination control.

White 7" x 13-1/2" – 30 sheets per package
Cat. No. 19-746



Cotton Applicators

6" Pointed cotton-tip applicator on wooden shaft. Head size @ .105" D, tapering to .020" Dia. Package of 100.

Cat. No. 19-756

6" Single cotton-tip applicator on wood shaft. Head size 3/16" D x 5/8" L. Package of 100.

Cat. No. 19-755

Double-tipped cotton applicator. Package of 100.

Cat. No. 19-759

3" Cotton-tip applicator on wood shaft.

Head size 3/16" D x 5/8" L. Package of 100.

Cat. No. 19-758



Foam Applicators

5" Rectangular foam-tip applicator on polypropylene shaft. Head size 11/16" W x 1" L. Package of 50.

Cat. No. 19-751

7" Spatula-end foam tip applicator on polypropylene shaft. Head size 11/16" W x 1" L. Package of 50.

Cat. No. 19-750

6" Foam-tip applicator on polypropylene shaft. Head size 3/16" D x 11/16" L. Package of 50.

Cat. No. 19-753



Anti-Static Applicators

These static-dissipative swabs are designed to attract dust and contaminants for easy cleaning while reducing static electricity.

6" Applicator with anti-static polyolefin handle. Head size 3/16" D x 11/16" L. Package of 50.

Cat. No. 19-754

5" Rectangular applicator, with anti-static foam and anti-static polyolefin handle. Head size 11/16" D x 1" L. Package of 50.

Cat. No. 19-752



Double Headed Cleaning Swabs

Cotton tipped swabs for general cleaning with Alcohol, Freon TF, 1,1,1 Trichloroethane, etc. 6" length, package of 50 swabs.

Swabs, 50 pcs.
Cat. No. 10-270



Poly & Cotton Lint Free Swabs

A special absorbent polyurethane swab with a fine texture that is gentle enough for cleaning delicate surfaces. Particularly good for delicate tape heads and similar usage. Reusable if used with solvents such as TF solvent, alcohol, etc.

Pkg. of 30 Swabs
Cat. No. 10-277



Acid Brushes

Brushes for cleaning with solvents, applying coatings and a host of other uses. These brushes are economical enough to use as throw-aways in many applications. Or may be used repeatedly with cleaners such as Freon TF, Chlorothene, Flux Solv, etc. Handles are of tin plated steel and bristles a medium-fine horse hair. Also fine for dusting keyboards, optics, etc. All 6" long, width below refers to width at base of bristles.

Width (Bristle)	Qty. Per Pkg.	Description	Cat. No.
3/8"	4	No. 1 Acid Brush	10-251
7/16"	4	No. 2 Acid Brush	10-252
1/2"	3	No. 3 Acid Brush	10-253
3/4"	2	No. 5 Acid Brush	10-255
-	-	Assortment, 7 pcs.	10-259

CIRCUIT BOARDS



Bare Copper Circuit Boards

One ounce copper (0.0014") on base of either FR-4 (G-10) fiberglass or CEM-1 type epoxy reinforced board, 1/16" thick.

Copper on One Side Only:
3" x 5"

Cat. No. 22-250

4" x 6"

Cat. No. 22-260

6" x 6"

Cat. No. 22-261

6" x 9"

Cat. No. 22-263

8" x 10"

Cat. No. 22-264

11" x 14"

Cat. No. 22-268

Copper on Both Sides:

6" x 9"

Cat. No. 22-267

Assortment of 4 one sided boards: [1] 2" x 4-1/2", [1] 3" x 4-1/2", [2] 2-1/4" x 3"

Cat. No. 22-272



Positive Pre-Sensitized Phenolic Circuit Boards

Made of 1.5 mm (1/16") thick phenolic base with one ounce (0.0014") copper. Coated with POSITIVE photo etch resist. Use with GC Developer, Cat. No. 22-225 or 22-226 concentrate. Mix at a ratio of 9 parts water to 1 part concentrate. Dielectric constant at 1 MHz=5.3.

Copper on One Side Only:
2" x 4"

Cat. No. 21-124

3" x 4"

Cat. No. 21-134

3" x 6"

Cat. No. 21-136

4" x 6"

Cat. No. 21-146

6" x 6"

Cat. No. 21-166

6" x 9"

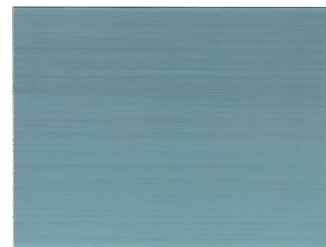
Cat. No. 21-169

7" x 10"

Cat. No. 21-1710

12" x 12"

Cat. No. 21-1212



Positive Pre-Sensitized Circuit Boards

1 oz. copper (0.0014") on a 1/16" (UL 94V-O) epoxy-glass FR-4 board. New high quality positive pre-sensitized PC boards are double protected from light and handling damage. The peel-off coating protects the board while handling or cutting prior to exposure. Can be exposed with common fluorescent lamp. GC makes it easy for anyone to make a professional looking board. Use with GC Developer Cat. Nos. 22-225 or 22-226 mixed 1 to 9 with water. Dielectric constant at MHz=5.4".

Meets Fed. Spec.: S-10941-1.

Copper on Both Sides:
3" x 4"

Cat. No. 21-339

6" x 6"

Cat. No. 21-350

6" x 9"

Cat. No. 21-353

12" x 12"

Cat. No. 21-357

Copper on One Side Only
2" x 4"

Cat. No. 21-330

3" x 4"

Cat. No. 21-332

3" x 6"

Cat. No. 21-243

4" x 6"

Cat. No. 21-334

6" x 6"

Cat. No. 21-336

6" x 9"

Cat. No. 21-338

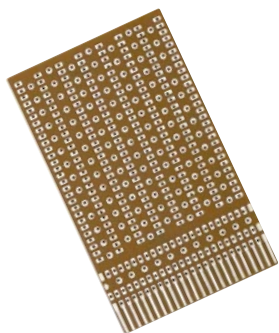
7" x 10"

Cat. No. 21-247

12" x 12"

Cat. No. 21-252

PROTOTYPE BOARDS



Plug-In IC Phenolic Prototype Board

IC's plug directly into board. 0.1" spacing accepts 14 pin or 16 pin IC's, up to 20 pin IC's. Silver plated lands with 24-way card edge connector plug on one end. Made of tough phenolic. 0.1" centers x 2-3/8" wide x 4" long x 1/16" thick, .035" holes.

Cat. No. 22-500



Versa Strip Phenolic Prototype Board

Alpha-numerical indexing. Silver-plated land patterns. Predetermined short tracks for multi IC work. 0.1" centers x 3-1/2" wide x 6" long x 1/16" thick, .035" holes.

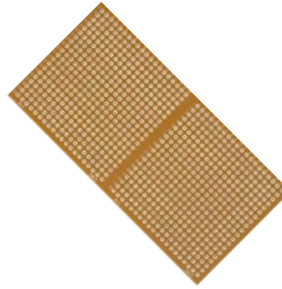
Cat. No. 22-502



Export Design Phenolic Prototype Board

Accommodates all types of IC's, transistor packages and passive parts. Lands and buss bars are tinned. 0.1" centers x 3-1/8" wide x 5-1/16" long x 1/16" thick.

Cat. No. 22-504

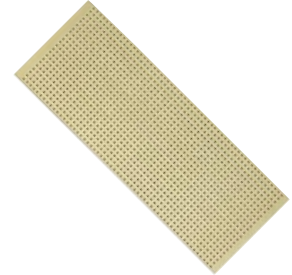


Experimenter's Phenolic Prototype Board

Save time and money with ready-to-use printed circuit boards. Excellent for use in prototype building, experimenting, hobby or science projects and kit building. Made of tough phenolic with .03" punched holes. Choice of single or quad land pattern. 3-3/8" wide x 6-3/4" long x 1/16" thick."

Quad Land Pattern
Cat. No. 22-510

Single Land Pattern
Cat. No. 22-512



Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Made of tough phenolic with punched holes. Boards are bare phenolic—no copper clad.

0.042" holes; 0.100" spacing
2-1/4" wide x 6" long x 1/16" thick
Cat. No. 22-514

4-1/2" wide x 6" long x 1/16" thick
Cat. No. 22-516

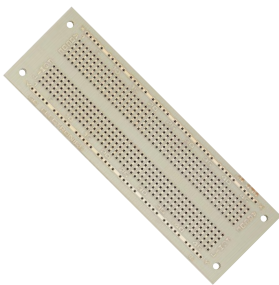
3-3/4" wide x 8" long x 1/16" thick
Cat. No. 22-518



Printed Strip Phenolic Prototype Board

Alpha-numerical indexing. Tin-plated land patterns for positive pin identification. 0.1" centers x 3-1/2" wide x 6" long x 1/16" thick, .035" holes.

Cat. No. 22-506

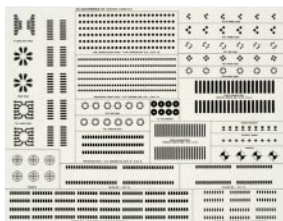


Experimenter's Phenolic Prototype Board

Ready-to-use copper plated printed circuit board has 550 solder tie-points, 94 five-point terminals and two 40-point buss strips on 0.3" centers. Phenolic board has pre-punched holes, mounting holes. 2" wide x 6" long x 1/16" thick.

Cat. No. 22-508

DRAFTING AIDS



Circuit Board Drafting Patterns

An 8-1/2" x 11" sheet containing two dozen of the most commonly used pre-spaced component configurations. Self-adhesive pads may easily be removed from master sheet with printed circuit knife and placed upon Mylar® positive artwork. Interconnection may be made with GC's line of opaque drafting tapes. A highly refined process and ink assures true opacity and the excellent definition necessary for quality printed circuit work.

Cat. No. 21-677



Etch Resist Ink Pens

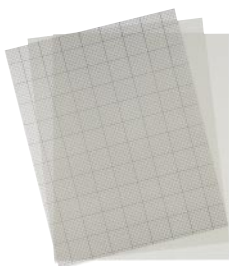
Black felt tip pens for marking nomenclature and touching up photo artwork or etch resist circuits directly on the PC board or on the positive. Dries instantly. Easy application. Can be removed with Stripping Solution (22-240) or alcohol.

Std. Size – draws lines approx. 1/32" wide

Cat. No. 22-220

Fine Line – draws lines as thin as 1/64" wide

Cat. No. 22-222



Mylar® Layout Film

Package of 2 transparent mylar sheets with clear finish plus one grid pattern sheet. Std. 0.10" spacing.

8-1/2" X 11"

Cat. No. 22-290

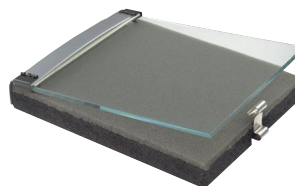
Mylar is a registered trademark of DuPont.



Positive-Acting Etch Resist Sensitizer

An excellent PC board-making system for the prototype engineer to produce today's high density, fine-line circuit boards. Easy aerosol application covers 25 to 30 square feet from an 11-ounce aerosol can.

2.68 avdp. oz. [76 gms.] Aerosol
Cat. No. 22-074



Exposing Frame

Assures tight contact between positive or negative and the photosensitive material. Results in perfect transfer of circuit image to the board.

For boards up to 4-1/2" to 6-1/2"
Cat. No. 22-280

For boards up to 10" to 12"
Cat. No. 22-393

PC DEVELOPING & ETCHING



Positive Type Developer Concentrate

For developing photo sensitized PC boards coated with positive type etch resist. To be diluted with 9 parts of water to 1 part of developer. 8 oz. will develop 10 to 20 sq. ft. of PC board.

2 fl. oz. [59 ml.] Bottle
Cat. No. 22-225

6 fl. oz. [177 ml.] Bottle
Cat. No. 22-226



Etching Solution Heater

Fits in tank and heats solution up to 38°C (100°F). Used to further reduce etching time. Built-in adjustable thermostat controls temperature continuously to 100°F. 120V AC/100 W Max.

Cat. No. 22-392



PC Board Etching Solution

This ferric chloride solution is one of the most effective and safest etching materials for copper clad PC boards. 6 oz. will etch about 180 sq. inches of PC board. Use only in plastic or glass trays. pH. 1.57

6 fl. oz. [177 ml.] Bottle
Cat. No. 22-237

32 fl. oz. [946 ml.] Bottle
Cat. No. 22-238

1 Gallon [3.8 l.] Container
Cat. No. 22-239



Professional PC Board Power Etching System

A semi-automatic etching device for use in labs, schools, prototype shops and for limited PC board production. Reduces etching time to minutes. Air pump agitates etching solution for fast, very even etches. Handles up to two 8" X 10" PC boards at a time, either single or double sided. Tank comes with a tip-proof wire stand that can remain portable or attached to the bench with screws. For professional labs, it can be mounted as a bench well. Boards fit into a submersible rack with handles that keep hands away from the etchant as well as separating the PC boards. Lid prevents splashes, reduces evaporation, and can be turned upside down and used as an auxiliary tray.

Kit contains:

- 1 Etching Tank and Reservoir Lid (12"H x 2-1/2"W x 10-1/2"L)
- Molded Polyethylene – ABS PC Board Holder
- Capacity – 1.25 Gallons of Etching Solution
- 1 Etch-O-Matic Power Agitating Pump, 120V AC Operation
- 1 Permanent or Portable Tip-Free Base
- 1 PC Board Holder and Handle
- 4 Feet of Supply Hose

Cat. No. 22-394



Developing and Etching Trays

Two plastic trays (5-1/4" x 7-1/4" I.D.) for positive method developing and for etching. One aluminum tray for rinsing (4-1/4" x 6-3/4" I.D.).

Set of 3

Cat. No. 22-284

High Grade Blk Plastic 8" x 10" I.D.

Cat. No. 22-285

High Grade Blk Plastic 11" x 14" I.D.

Cat. No. 22-286

PC REPAIR



Silver Print Conductive Paint

Bottle for PC repair or add-on circuit traces. Pure silver in lacquer based carrier may be brushed on for either conductors or shielding. Connections have equal or better conductivity than copper (0.1 ohms per square).

1/2 troy oz. [15.69 gms.] Bottle

Cat. No. 22-201

1 troy oz. [31.1 gms.] Bottle

Cat. No. 22-202



Nickel Print Conductive Paint

A quick drying lacquer-based coating, pigmented with powdered nickel. For repair and modification of printed circuits. Conductivity is 5 to 6 ohms per square.

2 fl. oz. [59 ml.] Bottle

Cat. No. 22-207



Print Kote Conformal Coating

The ultimate coating for PC boards. Provides a protective shield to resist environmental contaminants. Prevents arcing and shorting. Air dry 15-30 minutes. May be baked at 200°C for 30-60 minutes for extreme high temperature applications.

2 fl. oz. [59 ml.] Bottle

Cat. No. 22-203

N.S.N. 8010-00-711-2173

5 oz. Net Wt. [142 gms.] Aerosol

Cat. No. 22-204

N.S.N. 5970-00-223-7275

11 oz. Net Wt. [311 gms.] Aerosol

Cat. No. 22-245

N.S.N. 8030-00-497-1328



Print Kote Solvent

A solvent to remove silicone and other types of protective coatings from PC boards. Required when modifying PC boards or replacing components where the protective coating interferes with the desoldering and resoldering operation.

2 fl. oz. [59 ml.] Bottle

Cat. No. 22-209

N.S.N. 6810-00-711-2185



Stripping Solution

Removes remaining etch resist from PC boards. Removes any coating that remains over the copper after etching which may interfere with the soldering of the component leads to the PC board.

2 fl. oz. [59 ml.] Bottle

Cat. No. 22-240



Flux Remover and Cleaner II

Convenient, fast and easy to use. Removes all types of organic flux. Pinpoint applicator supplied. Non ODC.

16 oz. Net Wt. [454 gms.] Aerosol

Cat. No. 22-271



Etch Resist Lacquer

For touch-up or modification of resist patterns before etching. Fast drying, easy to apply on PC boards. Bottle is supplied with small brush attached to cap.

1/2 fl. oz. [14.8 gms.] Bottle

Cat. No. 22-244



Small Printed Circuit Repair Kit

For repair and servicing of printed circuits.

Cat. No. 22-682

N.S.N. 3439-00-986-2582

N.S.N. 5999-00-755-1808

Kit contains:

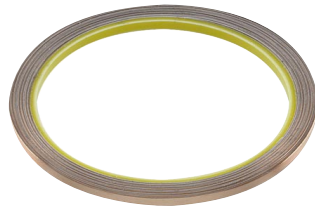
- 1—Solder Aid Tool **Cat. No. 9093**
- 1—Low-Melt Solder **Cat. No. 9132**
- 1—PC Repair Foil
- 1—Fiberglass Eraser
- 1—Tweezers **Cat. No. 7948**
- Asst. Solder Washers (Fluxed)



Printed Circuit Tool Kit

Printed circuit solder aid tools in a vinyl pouch. Includes electronic assembly tweezers of stainless steel, stainless steel scissors tweezers and double-ended, non-sticking soldering tool with angle reamer tip and forked tip.

Cat. No. 22-9496



Pure Copper Circuit Tape

6-foot roll of self-adhesive pure copper tape for quick repairs or circuit modification. Adheres readily to PC boards and similar surfaces; solders readily. Flexible enough to be used around corners, between PC boards, between board and chassis, etc. Extremely low resistance (.002" thick). Supplied on 1" I.D. core.

1/16" wide

Cat. No. 22-507

1/8" wide

Cat. No. 22-509



Micro Inspection Magnifier

Superb tool for the close inspection and trouble shooting of micro-circuits and PC boards. Provides 2X magnification from 2-1/2" dia. precision-ground glass that swings a full 360° with positive-lock swivel adjustments.

Cat. No. 22-386



Drill Bit Sets

For drilling component lead wire holes in phenolic and glass epoxy PC boards. Made of high speed tool steel for long life.

Set Contains:

No. 66 Bit .0330" Dia., No. 60 Bit .0440" Dia., No. 1/16 Bit .0625" Dia.

Cat. No. 22-275

Set Contains:

No. 31 Bit .1200" Dia., No. 27 Bit .1440" Dia., No. 3/32 Bit .0938" Dia.

Cat. No. 22-276

CHEMICAL SPECIFICATION MATRIX

Adhesives Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Specific Gravity	Curing/ Drying Time	Suggested Solvent	Shelf Life Months	DOT Shipping
10-114 19-822	Quik Stik	Pkg. of 2 1/2 fl. oz. 30 cc.	Mod. Epoxy	Clear	Above 149 C (300 F)	1.17 (Resin) 1.13 (Hardener)	Hard 4 hrs.	None	12	Not Regulated
10-100	Epoxy Super Glue	Pkg. of 2 3/4 fl. oz.	Bisphenol A (Resin) Polyamide (Hardener)	Transparent Lt. Straw.	Above 149 (300 F)	1.16 (Resin) 0.97 (Hardener)	Hard 24 hrs.	None	12	Not Regulated
10-347	Epoxy Glue	Pkg. of 2 2 fl. oz.	Epoxy Resin	Grey White	Above 204 C (400 F)	1.26 (Resin) 1.28 (Hardener)	Hard 24 hrs.	None	36	Not Regulated
19-823 19-824 19-824-2G	GC Potting Epoxy	8 oz. kit 500 gms. kit 2 gal. kit	Epoxy	Black Opaque	300 F	1.13/9.0	24 hrs @ 77 F 2 hrs @ 150 F	None	12	Not Regulated
19-2092	Conductive Epoxy	6 gm. Kit	Silver Epoxy	Silver			Hard 24 hrs.	None	6	Not Regulated
19-348	Epoxy Putty	4 oz.	Epoxy Resin	Grey	None	1.5	Sets in 20 mins.	None	36	Not Regulated
19-115	GR-R-RIP	0.075 fl. oz.	Ethyl Cyanoacrylate	Clear	83 C (182 F)	1.05	15-60 secs.	Acetone	12	Not Regulated
19-117	GELWELD	0.101 fl. oz.	Ethyl Cyanoacrylate	Clear	181.4 F	1.04	15-60 secs.	Acetone	12	Not Regulated
10-120	GC Super Glue	0.075 fl. oz.	Ethyl Cyanoacrylate	Clear	83 C (182 F)	1.05	15-60 secs.	10-312 or Lacquer Thinner	36	ORM-D
10-128	GC Super Adhesive	1 fl. oz.	Ethyl Cyanoacrylate	Clear	80 C (176 F)	1.12	15-60 secs.	Acetone	12	Not Regulated
10-324 10-328	General Purpose Plastic Cement	2 fl. oz. 8 fl. oz.	Ethyl Acetate & Nitrocellulose	Clear Lt. Staw.	24 F	0.954	10-15 mins.	10-312 Lacquer Thinner	36	ORM-D
10-4302 10-4308 10-4316	GC Bond	2 fl. oz. 8 fl. oz. 16 fl. oz.	Synthetic Thermoplastic Resin	Tan	22 F	0.87	4 hrs.	10-312 Lacquer Thinner or MEK	24	ORM-D
10-302 10-310	Service Cement	2 fl. oz. 1 gal.	Nitrocellulose Lacquer	Clear Lt. Staw.	24 F	0.975	20-30 mins.	10-312 Lacquer Thinner	36	ORM-D
10-352	Rubber-to-Metal Cement	2 fl. oz.	Rubber Resin	Black	-10 C (14 F)	0.9	6-8 hrs.	10-6702 or Petroleum Naptha	36	Not Regulated
19-4002 19-4008	Acrylic Cement	2 fl. oz. 8 fl. oz.	Acrylic Resin	Black Opaque	-7 F	<1	15 mins.	Methyl Ethyl Ketone	36	ORM-D
10-5802	Vinyl Cement	2 fl. oz.	Vinyl Resin	Clear	-20 C (-4 F)	0.86	25 mins.	Acetone	36	ORM-D
19-712	Spray Adhesive	11 oz.	SBR	Amber	0F	0.72	15 mins.	Acetate	12	ORM-D

Silicone Sealants Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Specific Gravity	Consistency	Tensile Strength	Extrusion Rate	% Elongation	Shelf Life Months	DOT Shipping
10-150	Silicone Rubber Adhesive/Sealant	3 fl. oz.	Vulcanized Silicone	Clear	Non-Flammable	1.04	Non-Slump Paste	220 PSI min.	220-425 gram. min.	350 min.	18	Not Regulated
19-155	Electronic Grade Silicone Sealant/Adhesive	3 fl. oz.	Vulcanized Silicone	Clear	Non-Flammable	1.03	Non-Slump Paste	220 PSI min.	220-425 gram. min.	350 min.	12	Not Regulated
EL-615	Silicone Caulk Tube	10.2 fl. oz.	Vulcanized Silicone	Clear	Non-Flammable	1.03	Non-Slump Paste	220 PSI min.	220-425 gram. min.	350 min.	18	Not Regulated

Cleaners Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Specific Gravity	Pounds per Gallon	Shelf Life Months	DOT Shipping
19-8508 19-8475-10 19-8475 19-8475-SF	Air Jet	8 oz. aerosol 10 oz. aerosol 12 oz. aerosol 12 oz. aerosol	Halogenated Hydrocarbons	Clear	None	1.21	9.68	30	ORM-D
19-8410-10 19-8410 19-8410-SF	Freeze Mist	10 oz. aerosol 12 oz. aerosol 12 oz. aerosol	Halogenated Hydrocarbons	Clear	None	1.21	9.68	30	ORM-D
19-903-6 19-902 19-902-SF 19-903 19-903-SF	Big Bath	6 oz. aerosol 12 oz. aerosol 12 oz. aerosol 22 oz. aerosol 22 oz. aerosol	Halogenated Hydrocarbons	Clear	None	1.22	9.76	30	ORM-D
19-8669	Dry Kleen	16 oz. aerosol	Chlorinated Hydrocarbons	Clear	None	1.32	10.9	30	ORM-D
19-901 19-624	Component Bath	16 oz. aerosol 22 oz. aerosol	Halogenated Hydrocarbons	Clear	None	0.75	6	30	ORM-D
19-634 19-636	Jif-Action	6 oz. aerosol 16 oz. aerosol	Halogenated Hydrocarbons	Clear	53 F	1.1	8.8	30	ORM-D
19-8666 19-8666-16	Spray-Kleen	6 oz. aerosol 16 oz. aerosol	Halogenated Hydrocarbons	Clear	Flammable	1.15	9.6	30	ORM-D
19-724 19-725 19-725-16 19-725-55G	GC Bath	4 oz. aerosol 10 oz. aerosol 16 oz. can 55 gal. drum	Hydrocarbons	Clear	20 F	0.75	6.24	30	ORM-D
19-723	Little Bath	4 oz. aerosol	Hydrocarbons	Clear	20 F	0.75	6.24	30	ORM-D
19-630 19-638 19-640 19-640-16 19-640-G	Jiffy Bath	2 oz. bottle 4 oz. aerosol 10 oz. aerosol 16 oz. can 1 gal.	Hydrocarbons	Clear	20 F	0.75	6	30	ORM-D
19-1902 19-1906	DE-OX-ID	2 oz. bottle 4 oz. aerosol	Refined Oil in Hydrocarbon Solvent	Light Yellow	20 F	0.75	6	42	ORM-D
19-700 19-704	GC Natural Citrus Cleaner	12 oz. aerosol 4 oz. aerosol	Citrus Terpene	Light Amber	None	0.79	6.3	30	ORM-D
19-2903-3 19-2903-8	Big Bath HFE	3 oz. aerosol 8 oz. aerosol	Hydrocarbons and HFE	Clear	None	1.3	6.6	30	ORM-D
19-904	Big Bath ISO	9 oz. aerosol	Isohexane	Clear	20 F	0.692	6.6	30	ORM-D
10-1507 10-1507-G	Isopropyl Alcohol	16 oz. can 1 gal.	Isopropyl Alcohol	Clear	12 C (53 F)	0.79	6.6	42	ORM-D
19-5302 19-5304 19-5302-16 19-5302-G	VCR/Magnetic Head Cleaner	2 oz. bottle 4 oz. aerosol 16 oz. can 1 gal.	Alcohol	Clear	13 C	0.79	6.6	30	ORM-D
10-9082	Glass Cleaner	14 oz. aerosol	Water & Ammonia	Clear	Nonflammable	0.98	8	36	ORM-D
10-1756	Glass Compound	6 oz. bottle	Water & Silicone	Clear	Nonflammable	0.99	8	36	ORM-D

Lubricants Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Specific Gravity	Pounds per Gallon	Viscosity	Useful Temp. Range	Shelf Life Months	DOT Shipping
10-2302	Lubriplate	1-3/4 fl. oz.	Lithium Soap Grease	Off-White	Non-Flammable	15.6	7.97	< 100 Sus at 100 F	-35 C to +77 C (-30 F to +170 F)	36	ORM-D
10-1206	Luberex	2 fl. oz.	Calcium Sterate Grease	Yellow	Non-Flammable	<1	7.97	290-325 at 100 F	-35 C to +77 C (-30 F to +170 F)	36	Not Regulated
10-2610	Tunerlub	1-3/4 fl. oz.	Petrolatum	Milky White	Non-Flammable	0.86	6.99	5 x 3 CP at 210 F	-35 C to +77 C (-30 F to +170 F)	36	Not Regulated
10-1223	Phonolube	2 fl. oz.	Mineral Oil	Semi Transparent Tan	Non-Flammable	0.9	7.97	750 Sus at 38 C	-35 C to +77 C (-30 F to +170 F)	36	Not Regulated
19-820	Conductive Grease Compound	1 oz.	Lithium Soap Grease w/ Zinc & Graphite Filler	Black Opaque	None	1.1	8.8	100 Sus at 100 F	170 F	42	ORM-D
19-821	Graphite Lubricant	1-1/8 oz.	Powdered Graphite	Dark Gray	None	2.25	-	-	400 F	42	Not Regulated
10-984	Reach-All Pen Oiler	1/2 fl. oz.	Paraffin Oil	Clear Lt. Straw	146 C (295 F)	0.84	-	9.6 CST at 40 C	-	42	Not Regulated
10-8885	Pocket Oiler	0.135 fl. oz.	Paraffin Oil	Semi Transparent Lt. Tan	435 F	0.925	7.67	13.5 CS at 100 F	-65 F to +300 F	36	ORM-D
10-9410	Teles-Oiler	4 fl. oz.	Paraffin Oil	Clear to Lt. Brown	Above 121 C (250 F)	0.8665	6.26	31.5 CS at 40 C	-23 C to +65 C (-10 F to +150 F)	36	Not Regulated
19-070	GC 70	10 oz. aerosol	Naptha/Quar. Ammonia	Clear Straw.	20 F	0.75	6	-	-	30	ORM-D
19-074	GC 70	4 oz. aerosol	Naptha/Quar. Ammonia	Clear Straw.	20 F	0.75	6	-	-	30	ORM-D
10-700	Formula 70	12 oz. aerosol	Mineral Spirits	Clear Amber	38 C	0.75	8.12	-	-	30	ORM-D
19-600	Sili-Spray	4 oz. aerosol	Hydrocarbon Polysiloxane	Clear Amber	20 F	0.75	6	-	-40 C to +85 C	30	ORM-D
19-810	Dry TFE	4 oz. aerosol	Hexane	White Opaque	-40 F	0.7	6	-	-	30	ORM-D

Coatings Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Gravity	Specific Drying Time	Curing/ Viscosity	Useful Temp. Range	Suggested Solvent	Shelf Life Months	DOT Shipping
22-201	Silver Print	1/2 troy oz.	Lacquer	Dull Silver	19 C (66 F) O.C.	1.6-1.7	Dry 16-20 mins. Hard 1 hr. @ 140 F	-	-	Butyl Acetate	12	ORM-D
22-202	Silver Print	1 troy oz.	Lacquer	Dull Silver	19 C (66 F) O.C.	1.6-1.7	Dry 16-20 mins. Hard 1 hr. @ 140 F	-	-	Butyl Acetate	12	ORM-D
22-207	Nickel Print	2 fl. oz.	Lacquer	Dull Grey	41 F O.C.	2	Dry 16-20 mins. Hard 1 hr. @ 140 F	-	-	Butyl Acetate	12	ORM-D
10-9002	Red Insulating Varnish	2 fl. oz.	Alkyd-Resin Based Enamel	Red	27 C (81 F) O.C.	1.1	Dry 30 mins. Hard 4-8 hrs. @ 25 C	#4 Ford Cup 65-85 Sec. @ 25 F	Up to 93 C (200 F)	Xylene	36	ORM-D
22-203	Print Kote Conformal Coating	2 fl. oz.	High Polymer Silicone Resin	Clear	16 C (61 F) O.C.	0.88	Dry 20 mins. Hard 1 hr. @ 77 F	500 CS	-65 to 200 C	22-209	18	ORM-D
22-204	Print Kote Conformal Coating	5 oz. aerosol	High Polymer Silicone Resin	Clear	16 C (61 F) O.C.	0.88	Dry 20 mins. Hard 1 hr. @ 77 F	500 CS	-65 to 200 C	22-209	18	ORM-D
22-245	Print Kote Conformal Coating	11 oz. aerosol	High Polymer Silicone Resin	Clear	16 C (61 F) O.C.	0.88	Dry 20 mins. Hard 1 hr. @ 77 F	500 CS	-65 to 200 C	22-209	18	ORM-D
10-1762	Insulating Coating	2 fl. oz.	Synthetic Resin in Solvent	Black	7 F (45 F) C.C.	0.9	12 mins. tack free	V2000-3000 CP @25 C	2 C to 66 C	22-209	12	ORM-D
10-1766	Insulating Coating	16 fl. oz.	Synthetic Resin in Solvent	Black	7 F (45 F) C.C.	0.9	12 mins. tack free	V2000-3000 CP @25 C	2 C to 66 C	22-209	12	ORM-D
10-8665	Acrylic Plastic	11 oz. aerosol	Polymetric Acrylic Ester	Clear	-156 F	1	10 mins. tack free	250 CP @ 25 C	Up to 190 C	10-4102	30	ORM-D
10-4702	Corona Dope	2 fl. oz.	Cellulose Compound	Black	-1 C (30 F) O.C.	0.9	30-60 mins.	220 CP @ 25 C	Up to 340 F	10-312 or Lacquer Thinner	36	ORM-D
10-5002	Red-X Corona Dope	2 fl. oz.	Thixotropic Polyester Enamel	Red	10 C (50 F) O.C.	1.12	2 hrs.	6000-10000 BRKFLD #1 Spindle-2 RPM @27 C	Up to 105 C (220 F)	10-6702 Naptha or Xylol	36	ORM-D
10-5012	Red-X Corona Dope	12-1/4 oz. aerosol	Thixotropic Polyester Enamel	Red	10 C (50 F) O.C.	1.12	2 hrs.	6000-10000 BRKFLD #1 Spindle-2 RPM @27 C	Up to 105 C (220 F)	10-6702 Naptha or Xylol	36	ORM-D
10-3702	Q Dope	2 fl. oz.	Stryene	Milky White	45 F	0.91	2 hrs.	-	-	10-4102	36	ORM-D
10-3704	Q Dope	4 fl. oz.	Stryene	Milky White	45 F	0.91	2 hrs.	-	-	10-4102	36	ORM-D
10-3709	Q Dope	1 gal.	Stryene	Milky White	45 F	0.91	2 hrs.	-	-	10-4102	36	ORM-D
10-4807	EMI-RFI Shield	12 oz. aerosol	Lacquer & Graphite	Dark Grey	-4 C (2.5 F) O.C.	0.89	3-9 mins.	0.5-0.7 BRKFLD @25 C	Up to 197 F Constant	10-312 or Lacquer Thinner	12	ORM-D

Solvents Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Specific Gravity	Shelf Life Months	DOT Shipping
10-4102	Q Dope Thinner	2 fl. oz.	Toulene	Clear	4 C (40 F)	0.27	42	ORM-D
10-312	Radio-TV Cement Solvent	2 fl. oz.	Acetone	Clear	-9.5 C (15 F)	0.88	42	ORM-D
10-318	Radio-TV Cement Solvent	8 fl. oz.	Acetone	Clear	-9.5 C (15 F)	0.88	42	ORM-D
10-320	Radio-TV Cement Solvent	16 fl. oz.	Acetone	Clear	-9.5 C (15 F)	0.88	42	ORM-D
10-321	Radio-TV Cement Solvent	1 gal.	Acetone	Clear	-9.5 C (15 F)	0.88	42	ORM-D
10-6702	Paint Thinner	2 fl. oz.	Mineral Spirits and Toulene	Clear	21 C (70 F)	0.9	42	ORM-D
22-209	Print Kote Solvent	2 fl. oz.	Toulene	Clear	4 C (40 F)	0.87	42	ORM-D

Flux Removers Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Specific Gravity	Shelf Life Months	DOT Shipping
19-328-12 19-328-22	General Use Flux Solv	12 oz. aerosol 22 oz. aerosol	Halogenated Hydro Carbon	Clear	53 F	1.1	42	ORM-D
19-270	Extra Strength Flux Solv	16 oz. aerosol	Halogenated Hydro Carbon	Clear	None	1.24	42	ORM-D
19-825 19-825-16 19-825-G	GC Flux Solv	10 oz. aerosol 16 fl. oz. 1 gal.	Hydrocarbon Solvent & I.P.A.	Clear	20 F	0.75	30	ORM-D
19-220 19-229 22-271	Flux Remover & Cleaner 2	2 fl. oz. 16 fl. oz. 16 oz. aerosol	Halogenated Hydro Carbon	Clear	None	1.24	30	ORM-D
19-7517 19-7521	Static-Free High Strength Flux Remover	12 oz. aerosol 18 oz. aerosol	Chlorinated Hydrocarbons	Clear	None	1.29	42	ORM-D

Solder Flux Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Specific Gravity	Shelf Life Months	DOT Shipping
10-4202 10-4216	Liquid Solder Flux	2 fl. oz. 16 fl. oz.	Rosin & Alcohol	Clear to Lt. Straw.	12 C (250 F)	0.882	36	ORM-D
10-200	Solder Flux	2 fl. oz.	Monoethanalomine Drethandamine	Clear to Lt. Yellow	None	1.1	42	ORM-D
10-1207	Soldering Paste	2 fl. oz.	Petrolatum	Amber	Non-Flammable	1.08	36	Not Regulated
10-202	Water Soluble	2 fl. oz.	Rosin	Milky White	400 F	1.1	42	ORM-D

Specialty Products Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Specific Gravity	Shelf Life Months	DOT Shipping
10-8880	High Voltage Putty	11 oz.	Silicone Rubber Compounds	Clear	-156 F	1	36	Not Regulated
19-1004	Static Null	8 oz. aerosol	Dimethyl Ether & IPA	Clear	-42 F	<1	36	ORM-D
10-8602	Belt & Drive Non-Slip	2 fl. oz.	Alcohol	Clear to Lt. Brown	54 F	0.91	36	ORM-D
19-708	Odor Neutralizer	4 fl. oz.	Non-Toxic Biodegradable	Clear	None	1.42	36	ORM-D
10-1230	Anti-Sieze Compound	1 fl. oz.	Molykote	Black	250 F	1.26	36	Not Regulated
10-8101 10-8102 10-568	Silicone Compound	1 fl. oz. 1 gal. 1/3 fl. oz.	Silicone Grease	White Paste	>400 F	1.03	36	Not Regulated
EL-013	Bee, Wasp & Hornet Killer	15 oz. aerosol	Naphtha	Clear to Lt. Brown	Flammable	<1.0	36	ORM-D
EL-100	Cold Galvanizing Compound	14.5 oz. aerosol	Zinc, Resin & Naptha	Gray	<0 F	1.09	24	ORM-D

Printed Circuit Products Specifications

Cat. No.	Description	Contents	Base	Color	Flashpoint	Specific Gravity	Pounds per Gal.	Shelf Life Months	DOT Shipping
22-074	Positive-Acting Etch Resist Sensitizer	2.68 oz. aerosol	Novolak	Green	0 F	0.83	9	12	ORM-D
22-225 22-226	Positive Type DeveloperConcentrate	2 fl. oz. 6 fl. oz.	Sodium Hydroxide	Milky White	Non-Flammable	1.08	9	42	ORM-D
22-237 22-238 22-239	PC Board Etching Solution	6 fl. oz. 32 fl. oz. 1 gal.	Ferric Chloride & Water	Dark Brown	Non-Flammable	1.42	11.8	42	ORM-D
22-240	Stripping Solution	2 fl. oz.	MEK & Xylene	Clear	23 F	0.84	7	42	ORM-D
22-244	Etch Resist Lacquer	2 fl. oz.	Hydro Carbon Solvent	Black	2 C (35 F) O.C.	0.92	7.7	36	ORM-D



TOOLS

Whether you're a technician, working at a bench, an installer, working in the field, or a contractor, on the job site, the combination of GC's Electronic Tools and Supplies and Thorsen Tools provide you with high quality products to get the job done right.

The GC Professional tool line gives you an extensive selection of precision pliers, cutters, and screwdrivers; designed for electronic service work. Our alignment tools have set an industry standard for the service technicians for decades. But we don't stop there.

GC Electronics offers a broad range of soldering aids and work-handling tools to make your work easy and consistent. Our selection of test leads and specialty tools cover a wide range of electronic service tasks. Field Service Technicians have learned to depend on GC's extensive selection of wire strippers. Often copied, GC's 766 Speed-O-Matic Wire Stripper gave the Electronic Industry its first consistent quality strip. Today, GC continues to expand its line of cable strippers and crimping tools. If you're working with wire, GC can supply all of your needs; ranging from the wire or cable itself, to the stripping and crimping tools, and finally, the connectors needed for your job.

Today, static control is one of the most critical concerns in the production and handling of electronic devices. GC's line of ESD mats, straps, and testers offer you the tools that you need to make sure that your work is protected. When combined with the Static Control Chemicals, offered by GC, you have most of the tools you need for production or field work.

But we don't stop there. Thorsen Tools, complements the GC Electronics product offering. This contractor-grade line of pliers, wrenches, sockets, and screwdrivers gives the contractor and the Plant Maintenance professional high quality tools, covered by a Lifetime Warranty, at very attractive prices.

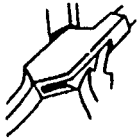
- Professional Pliers and Cutters
- Precision Electronic Screwdrivers and Tool Sets
- Thorsen Professional Tools
- Wire Strippers
- Installer Crimping Tools
- Adjustment and Alignment Tools
- Test and Measurement Products
- Craft Tools
- Solder and Soldering Irons
- Solder Production Tools
- Specialty Tools
- ESD Protection Tools and Devices



GC PROFESSIONAL™ PLIERS AND CUTTERS

- Lifetime warranty.
- Box joint construction: a unique joint that allows the two parts of the pliers or cutter to be mated during the early stage of the manufacturing process, creating a precision fit. Dual bearing surfaces on each handle of the tool eliminate “slack” or “play” in the joint producing perfect joint alignment and long wear.
- Pliers and cutters are made from solid 420 stainless steel, MIRROR polished and correctly hardened for long lasting service. These tools will not rust.
- Dual leaf springs reduce tension for ease of operation.
- Static Dissipative handles provide greater operator comfort and protect electronic components from Electro Static Discharge (ESD).

Box Joint Construction



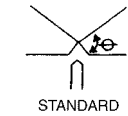
Precision manufacturing process improves jaw strength and maintains accurate jaw alignment.

When selecting electronic cutting pliers, you should attempt to minimize your cost per cut by selecting the proper tool for each application. The type of cut, cutting area access, cutting edge quality and user preference will influence your choice.

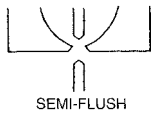
Type of Cut

Electronic pliers are available with cutting edge angles that produce standard, semi-flush and flush cuts. These terms refer to the amount of “pinch” left on the tip of a wire after it has been cut.

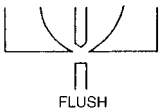
Standard cutting edges should be used for applications that are not sensitive to either the amount of shock transmitted through the wire to the component (during cutting) or to the amount of “pinch” left on the wire tip (after cutting).



Semi-flush edges can be employed for most applications. They reduce shock transmittal and wire tip “pinch”.



Flush edges should be selected only for delicate applications, which require minimal shock transmittal and wire tip “pinch”. Flush cutters produce a clean cut, which facilitates soldering and increases connection reliability. With small cutting edge angles, the life of flush cutters is substantially less than that of semi-flush cutters. The larger the cutting edge angle, the more cuts you can expect from the tool. For electronic assembly work, the semi-flush cutter is often the most cost-effective choice.



Cutting Area Access

Access to cutting areas can determine the shape and thickness of the cutting head. Tight clearances around the cutting area, the need to reach over in-place components or to work from directly above, and visibility requirements are all factors which will affect your choice of a tool. However, it is important to recognize that head shape and thickness are directly related to cutting edge life.



Head Shape: Always select a cutter with the largest head that will meet your particular cutting requirements. It is a proven fact that more material behind the cutting edges gives more cuts and longer life.



Oval head cutters are the most versatile. They have the most material behind the cutting edges, and last longest. Tapered and angled head cutters should be selected only when access to the cutting area is limited. These cutters have less head mass, and provide proportionally fewer cuts.



Head Thickness: Head thickness is related to cutting life in the same way as head shape. Cutting pliers with thicker heads also last longer. Whenever possible, use pliers with standard head thickness. Relieved head designs should be chosen only to accommodate difficult access problems.

Cutting Edge Quality

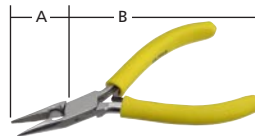
The quality of a pair of cutting pliers can be determined by visual inspection. The blades should meet smoothly and evenly at the tips. From a point just behind the tips to the joint, an increasing amount of light should be visible.



A precision tip interface assures clean cutting of fine wires, while the “no contact” area behind the tips extends cutter life by allowing the tips to continue to meet as they wear.

User Preference

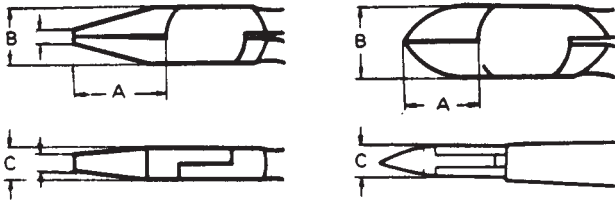
Other considerations can be a matter of personal preference. Handle shape, grip color, grip material, spring tension and leverage ratio are usually related to user comfort.



Proper spring tension will allow pliers to open and close with minimum effort. Finally, pliers with high leverage ratios provide the greatest ease of use and the longest life. Leverage ratio is obtained by dividing dimension A into dimension B.

GC TOOL TIPS

For optimum performance and durability, semi-flush cutters should be used whenever a flush cut is not required.



4-1/2" Chain Nose Pliers

All purpose tool for pickup, wire coiling and bending. Most popular shape.

A 0.80" B 0.35" C 0.20"

Smooth

Cat. No. 12-7301

Serrated

Cat. No. 12-7307



5" Chain Nose Pliers

Same as our 12-7301 but 5" in length and larger jaws.

A 1.00" B 0.45" C 0.20"

Smooth

Cat. No. 12-7302

Serrated

Cat. No. 12-7308



4-1/2" Flat Nose Pliers

For straightening and holding. Also useful for wire bending and component handling.

A 0.88" B 0.35" C 0.22"

Smooth

Cat. No. 12-7303



5" Flat Nose Pliers

Same as our 12-7303 but larger head dimensions.

A 1.00" B 0.45" C 0.30"

Smooth

Cat. No. 12-7304



4-1/2" Round Nose Pliers

Excellent for forming and coiling fine wire. Round jaws reduce damage to wire by eliminating sharp edges.

A 0.86" B 0.45" C 0.30"

Smooth

Cat. No. 12-7305



5" Round Nose Pliers

Same as our 12-7305 but larger jaws.

A 0.86" B 0.45" C 0.30"

Smooth

Cat. No. 12-7306



4-1/2" Bent Nose

For reaching into inaccessible areas. Pliers have a 30° bend.

A 1.00" B 0.36" C 0.24"

Smooth

Cat. No. 12-7309

Serrated

Cat. No. 12-7310



5" Extra Long Chain Nose

Excellent to reach into inaccessible areas. For forming, coiling and handling components.

A 1.20" B 0.36" C 0.22"

Smooth

Cat. No. 12-7311



5" Extra Long Bent Nose

Reaches into inaccessible areas. Square jaws provide an excellent grip.

A 1.20" B 0.36" C 0.22"

Smooth

Cat. No. 12-7312



6" Extra Long Bent Nose

Excellent for reaching into inaccessible areas.

A 2.00" B 0.36" C 0.30"

Smooth

Cat. No. 12-7313



5-3/4" Extra Long Needle Nose

Designed for light work where space and accessibility are limited.

A 1.95" B 0.40" C 0.20"

Serrated

Cat. No. 12-7314



4-3/4" Long Nose with Side Cutter

General purpose plier for component handling and looping or bending wire. Built in side cutter cuts wire up to 22 gauge.

A 1.08" B 0.38" C 0.22"

Serrated

Cat. No. 12-7315



6" Long Nose Pliers

Ideal for general assembly and wire bending work. Provides a strong grip.

A 1.52" B 0.48" C 0.30"

Serrated

Cat. No. 12-7333



4-1/2" Flush Tip Cutter

For use in limited access areas. Cutting capacity 24 GA soft wire.

A 0.68" B 0.36" C 0.25"

Flush

Cat. No. 12-7330



4-1/2" Tapered Head Cutter

Excellent for cutting in confined areas. Semi flush cutting capacity 22 GA soft wire and flush cutting capacity 24 GA soft wire.

A 0.56" B 0.45" C 0.30"

Semi Flush

Cat. No. 12-7325

Flush

Cat. No. 12-7326



4-1/2" Oval Head Cutter

Available in semi flush and flush configuration. Semi flush cutting capacity 22 GA soft wire and flush cutting capacity 24 GA soft wire.

A 0.68" B 0.46" C 0.28"

Semi Flush

Cat. No. 12-7321

Flush

Cat. No. 12-7323



4-1/2" Mini Tapered Flush Cutter

For precision cutting in confined areas. Flush cutting capacity 24 GA soft wire.

A 0.36" B 0.34" C 0.24"

Flush

Cat. No. 12-7331



5" Oval Head Cutter

Available in semi flush and flush configuration. Semi flush cutting capacity 20 GA soft wire and flush cutting capacity 22 GA soft wire.

A 0.70" B 0.60" C 0.38"

Semi Flush

Cat. No. 12-7322

Flush

Cat. No. 12-7324



4-1/2" Mini Oval Head Cutter

For precision cutting in confined areas. Flush cutting capacity 24 GA soft wire.

A 0.36" B 0.34" C 0.24"

Flush

Cat. No. 12-7332

PLIERS AND CUTTERS



Palm Grip Pliers

Six of the most commonly used cutters and pliers, precision-built with stainless steel working ends and lightweight but durable molded handles. Allows hours of uninterrupted use without the cramped fingers. Spring loaded with minimal travel. Fits in the palm of the hand for easy control during close, delicate work. Color-coded handles for quick identification.

Flush Cutter

Cat. No. 12-200

Flat-Nose Pliers, Serrated

Cat. No. 12-204

Flat-Nose Pliers, Non-Serrated

Cat. No. 12-208

Round-Nose Pliers

Cat. No. 12-212

Needle-Nose Pliers

Cat. No. 12-216

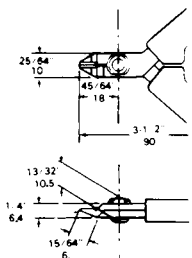
Curved-Nose Pliers

Cat. No. 12-220

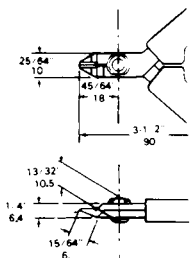
GC TOOL TIPS

To maintain blade edge **DO NOT** exceed recommended cutting capacity.

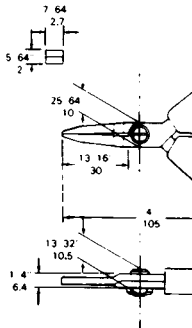
Flush Cutter
Cat. No. 12-200



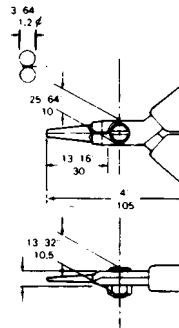
Flat-Nose Pliers, Serrated
Cat. No. 12-204



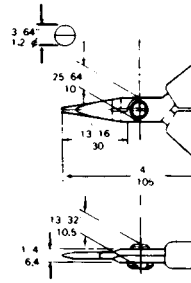
Flat-Nose Pliers, Non-Serrated
Cat. No. 12-208



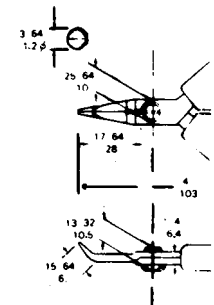
Round-Nose Pliers
Cat. No. 12-212



Needle-Nose Pliers
Cat. No. 12-216



Curved-Nose Pliers
Cat. No. 12-220





Stainless Steel Pliers

5-Piece Precision Stainless Steel Pliers Set

5 piece set fills diverse needs for technicians, designers, hobbyists and quality assurance professionals. Micro Flat Nose is perfect where jaw thickness must be minimal. Snub Nose Micro-Cutting Nippers are ideal for trimming components and soft, copper wire. Micro Round Nose Pliers hold tiny wires. Micro Bent Nose Pliers reach under PC boards to hold Micro-Cutting circuitry. Micro Long Nose style covers multiple applications for design, repair and micro-assembly. Spring-loaded handles are extra-cushioned for added comfort. Overall length is only 4".

Cat. No. 12-7070



Micro Long Nose Pliers

Pointed ends flatten corners and burred edges when high-quality results are required. Covers multiple applications for design, repair, and micro-assembly. Spring-loaded handles are extra-cushioned for added comfort. Overall length is only 4".

Cat. No. 12-7074



Micro Bent Nose Pliers

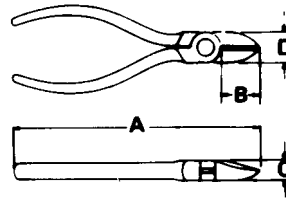
This Micro Bent Nose can be the most versatile tool on your bench, with its 45 degree jaws and long extra-thin professional design. Angled jaws reach under PC boards to hold Micro-Cutting circuitry. Spring-loaded handles are extra-cushioned for added comfort. Overall length is only 4"

Cat. No. 12-7075

Diagonal Cutting Pliers

For industrial applications and for use on assembly lines. Supplied with cushion-grip handles.

Dimensions:



Micro Snub Nose Cutting Nipper

Snub-nose design makes this Micro-Cutting Nipper desirable to use for cutting soft, copper wire up to 1.2 mm and for trimming components. Also excellent for plastic cutting where a wide bite is required. Spring-loaded handles are extra-cushioned for added comfort. Overall length is only 4".

Cat. No. 12-7072



Micro Flat Nose Pliers

Extra-sharp Flat Nose jaws are useful for close work where blade thickness must be minimal. Long jaws extend into difficult to reach areas. Spring-loaded handles are extra-cushioned for added comfort. Overall length is only 4".

Cat. No. 12-7071



Micro Round Nose Pliers

Tight spaces are never a problem with these precision Micro Round Nose Pliers. Easily reaches into tight spaces to hold tiny wires. Highly useful for retooling, model designing, and prototype development. Spring-loaded handles are extra-cushioned for added comfort. Overall length is only 4".

Cat. No. 12-7073



Miniature Diagonal Cutting Pliers

Precision matched cutting edges are induction hardened. Cuts most types of small wire.

length	A	B	C	D	weight
4"	4-1/8"	15/32"	1/4"	13/32"	.16 lbs.

With Spring **Cat. No. 12-300**

length	A	B	C	D	weight
4-1/2"	4-5/8"	5/8"	5/16"	9/16"	.16 lbs.

Cat. No. 12-306



Narrow Diagonal Cutting Pliers

Narrow jaws work easily in confined areas. Useful for all general purpose electric and electronic work. Induction hardened cutting edges.

length	A	B	C	D	weight
5"	5-1/4"	13/16"	3/8"	5/8"	.22 lbs.

Cat. No. 12-312



High Leverage Diagonal Cutting Pliers

Powerful leverage for heavy cutting ease. Induction hardened cutting edges.

length	A	B	C	D	weight
7"	7-1/8"	13/16"	1/2"	13/16"	.56 lbs.

Cat. No. 12-318



Clip & Grip Flush Cutter

Production quality flush cutter for trimming component leads. Retaining device holds clipped ends and prevents them from flying into the eye or remaining in the circuitry. Semi-flush jaws for close trimming and longer life. For copper wire up to .047" dia

Cat. No. 12-504



Flush Cutter

Economy flush cutter with the "feel" and precision of tools costing twice as much. Angular design is ideal for trimming wires or circuit boards. Precision ground cutting edges specified to 14 AWG copper wire. 5" long overall.

Cat. No. 12-500

PRECISION ELECTRONIC SCREWDRIVERS

GC precision screwdrivers feature color-coded swivel caps for ease of identification and added comfort. All shafts are made of durable nickel chrome steel. Black oxidized tips reduce glare and reflection.



Flat Blades

Cat. No.	Blade Size	Shaft Dia.	Shaft Length	Handle Length	Overall Length
12-6114	1.4 mm	2.0 mm	40 mm	S-80 mm	120 mm
12-6120	2.0 mm	2.0 mm	40 mm	S-80 mm	120 mm
12-6124	2.4 mm	2.4 mm	40 mm	S-80 mm	120 mm
12-6130	3.0 mm	3.0 mm	40 mm	S-80 mm	120 mm
12-6220	2.0 mm	2.0 mm	75 mm	M-95 mm	170 mm
12-6224	2.4 mm	2.4 mm	75 mm	M-95 mm	170 mm
12-6225	2.4 mm	2.0 mm	100 mm	M-95 mm	195 mm
12-6230	3.0 mm	3.0 mm	100 mm	M-95 mm	195 mm
12-6231	3.0 mm	3.0 mm	150 mm	M-95 mm	245 mm
12-6330	3.0 mm	3.0 mm	100 mm	L-105 mm	205 mm
12-6331	3.0 mm	3.0 mm	150 mm	L-105 mm	255 mm
12-6340	4.0 mm	4.0 mm	100 mm	L-105 mm	205 mm
12-6341	4.0 mm	4.0 mm	150 mm	L-105 mm	255 mm



Phillips Blades

Cat. No.	Blade Size	Shaft Dia.	Shaft Length	Handle Length	Overall Length
12-6414	1.4 mm	2.0 mm	40 mm	S-80 mm	120 mm
12-6420	2.0 mm	2.0 mm	40 mm	S-80 mm	120 mm
12-6424	2.4 mm	2.4 mm	40 mm	S-80 mm	120 mm
12-6430	3.0 mm	3.0 mm	40 mm	S-80 mm	120 mm
12-6520	2.0 mm	2.0 mm	75 mm	M-95 mm	170 mm
12-6524	2.4 mm	2.4 mm	75 mm	M-95 mm	170 mm
12-6525	2.4 mm	2.4 mm	100 mm	M-95 mm	195 mm
12-6526	2.4 mm	3.0 mm	75 mm	M-95 mm	170 mm
12-6530	3.0 mm	3.0 mm	100 mm	M-95 mm	195 mm
12-6630	3.0 mm	3.0 mm	100 mm	L-105 mm	205 mm
12-6631	3.0 mm	3.0 mm	150 mm	L-105 mm	255 mm
12-6640	4.0 mm	4.0 mm	100 mm	L-105 mm	205 mm
12-6641	4.0 mm	4.0 mm	150 mm	L-105 mm	255 mm

PRECISION ELECTRONIC SCREWDRIVER SETS



6-Piece Precision Screwdriver Set

Easy grip swivel-cap handles are indispensable for hobbyists and experimenters. Small blades find uses in assembly and repair of electronic devices, models, jewelry and toys. Six flat blades include sizes .9 mm, 1.2 mm, 1.8 mm, 2.4 mm, 3.0 mm, and 3.5 mm, packaged in plastic storage box.

Cat. No. 12-043



6-Piece High Quality Precision Screwdriver Sets

100% Phillips blades in the most popular sizes; 1.6 mm, 2.0 mm, 2.4 mm, 3.0 mm, 3.5 mm, and 4.0 mm. All handles are nickel-chrome plated steel with superior tooling. A perfect complement to Cat. No. 12-063. Extra-strength storage box included.

Cat. No. 12-064



7-Piece High Quality Micro Mini Precision Screwdriver Set

Ultra-precision and watch repair accuracy in a complete set of flat blade screwdrivers. Color-coded and swivel caps make micro repairs convenient. Each handle is numbered for quick identification. Every shaft is reversible, providing extended durability. Sizes are .022", .025", .029", .038", .045", .053", and .062". Handles are nickel-chrome steel with superior tooling. Includes plastic view-top storage case.

Cat. No. 12-057



6-Piece High Quality Precision Screwdriver Set

Nickel-chrome steel and superior tooling adds increased comfort and durability to this upgrade version of Cat. No. 12-062. Kit includes flat blade assortment in sizes 1.4 mm, 2.0 mm, 2.4 mm and 3.0 mm. Also includes 3.0 mm and 4.0 mm Phillips blades. Extra-strength storage box completes the set.

Cat. No. 12-065



6-Piece Precision Screwdriver Set

Make lab bench repairs comfortably with easy grip, swivel cap handles. Handy storage box with clear plastic cover holds four flat blade screwdrivers in popular sizes of 1.4 mm, 2.0 mm, 2.4 mm, and 3.0 mm. Also included are 3.0 mm and 4.0 mm Phillips blades.

Cat. No. 12-062



11-Piece Precision Screwdriver and Tool Set

Easy grip swivel-cap handles hold a single magnet and multi-purpose awl in this versatile tool set. Magnet tip picks up hard-to-hold screws. Sharp tip awl starts new screw holes easily. Matching flat blade screwdrivers in sizes 1.0 mm, 1.2 mm, 1.4 mm, 1.8 mm, 2.4 mm and 3.0 mm plus Phillips sizes 2.4 mm, 3.0 mm and 4.0 mm. All eleven pieces packaged in a convenient double-sided tool kit.

Cat. No. 12-066



6-Piece High Quality Precision Screwdriver Set

100% flat blades include 1.0 mm, 1.4 mm, 2.0 mm, 2.4 mm, 3.0 mm, and 3.8 mm. All handles are nickel-chrome steel with superior tooling. This popular sized kit is a must for every technician's workbench. Extra strength storage box included.

Cat. No. 12-063



11-Piece Precision Screwdriver and Tool Set

Miniature parts are easily managed with a 2" magnifying lens and precision tweezers packaged in a double-sided tool kit with eight swivel cap screwdrivers. Flat head sizes include 1.0 mm, 1.2 mm, 1.4 mm, 1.8 mm, 2.4 mm, and 3.0 mm. Phillips 2.0 mm and 2.4 mm complete the set.

Cat. No. 12-067

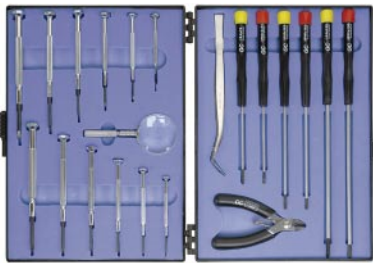
21-Piece Precision Screwdriver and Tool Set



Complete all repairs from one tool kit when you own this set. Includes open wrench sizes 4.0 mm, 4.5 mm, 5.0 mm, 5.5 mm, 6.0 mm; Phillips 3.0 mm, 4.0 mm; hex key wrench 1.5 mm, 2.0 mm, 2.5 mm; nutdriver 3.0 mm, 3.5 mm, 4.0 mm, 4.5 mm, 5.0 mm; and flat blades 1.0 mm, 1.4 mm, 2.0 mm, 2.4 mm, 3.0 mm, and 3.8 mm. Crossbar included for extra torque. Entire kit is fully visible, packaged in a convenient plastic box.

Cat. No. 12-068

21-Piece Deluxe Precision Screwdriver and Tool Set



Professional style fitted tool case with magnifier, bent-nose tweezers, micro-cutting nippers and three screwdriver sets. Includes electronic flat blades 2.4 mm, 3.0 mm, and 3.8 mm; electronic Phillips 3.0 mm, 3.5 mm with 75 mm, 100 mm, and 150 mm shafts. Also, precision flat 1.0 mm, 1.4 mm, 2.0 mm, 2.4 mm, 3.0 mm, 3.8 mm; precision Phillips 1.6 mm, 2.0 mm, 2.4 mm, 3.0 mm, 3.5 mm, and 4.0 mm. Tweezers and nippers are stainless steel.

Cat. No. 12-069

10-Piece Electronic Screwdriver and Tool Set



Stainless steel magnifier and tweezers insure greater accuracy when working with micro-components and intricate repairs. Electronic screwdrivers have black oxidized tips to reduce glare and reflections. Shafts are constructed of nickel-chrome steel for extra durability. Precision flat blade sizes: 1.0 mm, 1.4 mm, 2.0 mm, 2.4 mm, Phillips sizes 1.6 mm, 2.0 mm, 2.4 mm. Multi-purpose awl provides pinpoint accuracy to construction projects, PC repairs and fine cleanup work. Short length 80 mm handles have colored swivel tips for added comfort and ease of identification. Packaged in reusable plastic box.

Cat. No. 12-6043

6-Piece Precision Electronic Screwdriver Sets



Electronic screwdrivers have black oxidized tips to reduce glare and reflections. Durable nickel-chrome steel shafts guarantee extra durability for use on TV sets, clocks VCR's, optical instruments and computers. Precision flat blades sizes: 2.4 mm, 3.0 mm, 4.0 mm. Phillips sizes 2.4 mm, 3.0 mm, 4.0 mm. Medium length 95 mm and long 150 mm handles reach deep and allow greater comfort and increased torque.

Cat. No. 12-6900



Black oxidized tips hold up with repetitive use while reducing glare and reflections. Shafts are constructed of nickel-chrome steel for extra durability. Precision flat blade sizes: 1.0 mm, 1.4 mm, 2.0 mm, 2.4 mm, 3.0 mm, 3.5 mm. Short length 80 mm handles offer accuracy in tight spaces for repair and construction of telephone equipment, toys and electrical appliances. Packaged in reusable plastic box.

Cat. No. 12-6901

7-Piece Precision Electronic Screwdriver Sets



This set features our seven most popular sizes with short length 80 mm handles. Great for varying work requirements where extreme accuracy is required. Nickel-chrome steel makes these shafts strong enough to use on tough repairs. Precision flat blade sizes: 1.4 mm, 2.0 mm, 2.4 mm, 3.0 mm. Phillips sizes: 2.0 mm, 2.4 mm, 3.0 mm. Packaged in reusable plastic box.

Cat. No. 12-6912



Color-coded end caps and easy grip handles make the precision screwdrivers the favorites of technicians, professional designers and engineers. Extra strong nickel-chrome steel shafts extend into tiny work spaces. Precision flat blade sizes: 1.4 mm, 2.0 mm, 2.4 mm, 3.0 mm. Phillips sizes: 1.6 mm, 2.4 mm, 3.0 mm. Two sizes of handles (80 mm and 95 mm) are included to comfortably reach wherever accuracy is necessary. Storage tray included.

Cat. No. 12-6923



8-Piece Precision Electronic Screwdriver Set

Easily locate the right tool every time with color-coded end caps and handy professional rack to keep screwdrivers organized. Precision flat blade sizes: 1.0 mm, 1.4 mm, 2.0 mm, 2.4 mm, 3.0 mm. Phillips sizes: 1.6 mm, 2.0 mm, 2.4 mm. Short length 80 mm handles. Includes convenient benchtop rack with tray for holding loose screws.

Cat. No. 12-6931



6-Piece Precision Electronic Screwdriver and Tool Set

Includes stainless steel micro-cutting nippers and micro-long nose pliers. Electronic screwdrivers have black oxidized tips to reduce glare and reflections. Shafts are constructed of nickel-chrome steel for extra durability. Precision flat blade sizes: 2.4 mm, 3.0 mm. Phillips sizes 2.4 mm and 3.0 mm. Medium length 95 mm handles.

Cat. No. 12-6955



9-Piece Precision Electronic Screwdriver Set

Includes 1.5" x 3.5" magnifying lens, stainless steel micro-cutting nippers and micro-long nose pliers. Electronic screwdrivers have black oxidized tips to reduce glare and reflections. Shafts are constructed of nickel-chrome steel for extra durability. Precision flat blade sizes: 1.4 mm, 2.0 mm, 2.4 mm. Phillips sizes: 1.6 mm, 2.0 mm, 2.4 mm. Short length 80 mm handles. Packaged in reusable plastic box.

Cat. No. 12-6952



10 Piece Screwdriver & Nutdriver Set

Compact set of No. 1 and No. 2 Phillips type screwdrivers; 1/8", 3/16", 1/4" slotted screwdrivers; 3/16", 1/4", 5/16", 11/32", and 3/8" nutdrivers. Plastic case holds all drivers plus powerful torque handle. Handle fits onto each of the drivers and increases your hand's gripping power.

Cat. No. 12-041

THORSEN® FULL SIZE PLIERS & CUTTERS



Slip Joint Pliers

Our most popular size of slip joint pliers with two jaw positions.

- 6" Slip Joint Pliers
Cat. No. TH-54206
- 8" Slip Joint Pliers
Cat. No. TH-54208
- 10" Slip Joint Pliers
Cat. No. TH-54210



Groove Joint Pliers

Jaws can be positioned and locked to give the user a wide range of jaw openings.

- 8" Groove Joint Pliers
Cat. No. TH-54308
- 10" Groove Joint Pliers
Cat. No. TH-54310



Diagonal Cutting Pliers

Three sizes of tapered-nose diagonal cutting pliers with standard bevel knives.

- 5" Diagonal Cutting Pliers
Cat. No. TH-54905
- 6" Diagonal Cutting Pliers
Cat. No. TH-54906
- 7" Diagonal Cutting Pliers
Cat. No. TH-54907



Linesmen Cutting Pliers

Our most popular side cutting linesmen pliers.

- 7" Linesmen Cutting Pliers
Cat. No. TH-54917
- 8" Linesmen Cutting Pliers
Cat. No. TH-54908



Long Nose Pliers

Standard long nose design with cutting knives at the hinge.

- 5" Long-Nose Plier
Cat. No. TH-54914
- 6" Long-Nose Plier
Cat. No. TH-54916
- 8" Long-Nose Pliers
Cat. No. TH-54918



Bent Nose Pliers

Bent nose allows for work in hard to reach areas.

- 11" 15 degree Bent Nose Plier
Cat. No. TH-56924
- 11" 45 degree Bent Nose Plier
Cat. No. TH-56926
- 11" 90 degree Bent Nose Plier
Cat. No. TH-56928

THORSEN® CUSHION GRIP SCREWDRIVERS

Slotted Screwdrivers

Thorsen Cushion Grip Screwdrivers with its large ergonomic handle and hollow for the thumb will resist slippage while providing the user with more turning torque. All blades are made of chrome vanadium and handles are marked with the size and Thorsen number.



1/8" Shank Width x 3" Shank Length
Cat. No. TH-56200

3/16" Shank Width x 4" Shank Length
Cat. No. TH-56202

3/16" Shank Width x 6" Shank Length
Cat. No. TH-56204

TH-56202 1/4" Shank Width x 1-1/2" Shank Length
Cat. No. TH-56206

1/4" Shank Width x 4" Shank Length
Cat. No. TH-56208

1/4" Shank Width x 6" Shank Length
Cat. No. TH-56212

TH-56206 5/16" Shank Width x 6" Shank Length
Cat. No. TH-56214

5/16" Shank Width x 8" Shank Length with hex
Cat. No. TH-56216

T-Bit Screwdrivers

T10 T-Bit
Cat. No. TH-56310

T15 T-Bit
Cat. No. TH-56315

T20 T-Bit
Cat. No. TH-56320

T25 T-Bit
Cat. No. TH-56325

T27 T-Bit
Cat. No. TH-56327

T30 T-Bit
Cat. No. TH-56330



TH-56315

Phillips Screwdrivers

3/16" Dia. X 3" Length x #1
Cat. No. TH-56220

1/8" Dia. X 3" Length x #0
Cat. No. TH-56221

1/4" Dia. X 1-1/2" Length x #2
Cat. No. TH-56222

3/16" Dia. x 4" Length x #1
Cat. No. TH-56223

1/4" Dia. x 4" Length x #2
Cat. No. TH-56224

1/4" Dia. x 6" Length x #3
Cat. No. TH-56225

5/16" Dia. x 6" Length w/hex x #3
Cat. No. TH-56226



TH-56220



TH-56222

Screwdriver Sets

A wide selection of screwdriver sets.

6 in 1 Cushion Grip Screwdriver
Cat. No. TH-56236

6 in 1 Cushion Grip Screwdriver (12 pack)
Cat. No. TH-56236D

4 in 1 Cushion Grip Torx Driver
Cat. No. TH-56314

22 Pc Screwdriver set
Cat. No. TH-33722

4 Pc Screwdriver set #2 x 4", #1 x 3", 1/8" x 3", 3/16" x 4"
Cat. No. TH-56254

2 Pc T-Bit Driver Set T15, T20
Cat. No. TH-56352

4 Pc T-Bit Driver Set T10, T15, T20, T25
Cat. No. TH-56354

6 Pc Screwdriver Set
Cat. No. TH-56256



TH-56236

THORSEN® CUSHION GRIP NUTDRIVERS

Nutdrivers

The hollow shaft will accommodate even the longest studs/bolts.

3/16" Hollow Shaft
Cat. No. TH-56467

1/4" Hollow shaft
Cat. No. TH-56468

5/16" Hollow Shaft
Cat. No. TH-56470

3/8" Hollow Shaft
Cat. No. TH-56472

7/16" Hollow Shaft
Cat. No. TH-56474

1/2" Hollow Shaft
Cat. No. TH-56476

6 Pc SAE Nutdriver Set 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"
Cat. No. TH-57462

6 Pc Metric Nutdriver Set 5, 6, 7, 8, 9, 10 mm
Cat. No. TH-67462



TH-57462

THORSEN® FULL SIZE ADJUSTABLE WRENCHES

Adjustable Wrenches

All adjustable wrenches are made of drop forged, heat treated carbon alloy steel and are chrome plated to resist rust.

4" Adj. Wrench
Cat. No. TH-56724

6" Adj. Wrench, 8 mm wide handle
Cat. No. TH-56726

8" Adj. Wrench, 9.4 mm wide handle
Cat. No. TH-56728

10" Adj. Wrench, 10.4 mm wide handle
Cat. No. TH-56730

12" Adj. Wrench, 12.2 mm wide handle
Cat. No. TH-56732

15" Adj. Wrench
Cat. No. TH-56735

18" Adj. Wrench
Cat. No. TH-56738



TH-56726

THORSEN® HAMMERS



TH-157843F

TH-157860F

TH-157862F

TH-157876F

Hammers

Three different styles of hammers.

12 oz. Ball Pien Hammer
Cat. No. TH-157843F

8 oz. Claw Hammer
Cat. No. TH-157860F

16 oz. Claw Hammer
Cat. No. TH-157862F

22 oz. Framing Hammer
Cat. No. TH-157876F

THORSEN® RATCHETS



TH-51175

TH-51178

TH-51100

Ratchets

Finger Ratchets.

3/8" Finger Ratchet Only
Cat. No. TH-51100

1/4" Drive x 5-1/2" lg, Quick release.
Cat. No. TH-50178

3/8" Drive x 8" lg, Quick release.
Cat. No. TH-51178

3/8" Drive x 4" stubby. Reversible ratchet
Cat. No. TH-51176

3/8" Drive x 8" lg. Flipper ratchet.
Cat. No. TH-51175

1/2" Drive x 10" lg. Push Release.
Cat. No. TH-52178



15 Piece Industrial T-Bit Driver Set

Set includes:

Standard Length Bits:

T-10, T-15, T-27, T-30,

3" Extra Reach Bits:

T-20, T-25, T-30, T-40, T-45,

T-47, T-50, T-55, T-60

Socket Adapter

Cat. No. TH-38515

THORSEN® SOCKET SETS



TH-31056

Socket sets

Both SAE and MM sizes.

3/8" Deep Drive, 6pc, 12 point, SAE, 7/16, 1/2, 9/16, 5/8, 11/16 & 3/8" drive socket rail

Cat. No. TH-31056

3/8" Deep Drive, 6pc, 12 point, metric, 10, 12, 13, 14, 15 mm & 3/8" drive socket rail

Cat. No. TH-41056



TH-30006

1/4" Drive, 9pc, 6 Point SAE, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2 & 1/4" drive socket rail

Cat. No. TH-30006



TH-31059

3/8" Drive, 9pc, 12 point, SAE, 1/4, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 & 3/8" drive socket rail

Cat. No. TH-31059

3/8" Drive, 9pc, 12 Point, metric, 10, 11, 12, 13, 14, 15, 17, 19 mm & 3/8" drive socket rail

Cat. No. TH-41059



TH-31010

3/8" Drive, 10 Pc, Hex/Screwdriver bit SAE, Reg. Slotted screwdriver, #2 Phillips, Screwdriver Bit, Hex Bit Sockets, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 and a metal tool box.

Cat. No. TH-31010



TH-38510

1/4" & 3/8" Drive, 11 Pc, Star Bit Socket Set, 1/4" Sockets (T10, T15, T20, T25), 3/8" Sockets (T27, T30, T40, T45, T50, T55), Socket Rail.

Cat. No. TH-38510



TH-31012

3/8" Drive 12 Pc., 12 Point SAE with 5" extension and 8" reversible ratchet, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4. 13/16" 6 point sparkplug socket and a metal toolbox.

Cat. No. TH-31012

12 Pc. 3/8" Drive, 12 Point Metric with 5" extension and 8" reversible ratchet, spin disc 9, 10, 12, 13, 14, 17, 19 mm with 13/16" 6 point sparkplug socket and metal toolbox.

Cat. No. TH-41012



TH-32015

1/2" Drive, 15 Pc., 12 Point SAE with 5" extension, 10" reversible ratchet, 13/16" 6 point sparkplug socket and metal toolbox. 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 and 1" sockets.

Cat. No. TH-32015

THORSEN® SOCKET ACCESSORIES



TH-51153



TH-50153



TH-52194



TH-51112

Socket Accessories

Extensions, Adaptors and Flex Handles.

1/4" Drive x 6" Extension

Cat. No. TH-50153

3/8" Drive x 5" Extension.

Cat. No. TH-51153

3/8" Drive x 10" Extension.

Cat. No. TH-51157

1/2" Drive x 5" Extension

Cat. No. TH-52153

1/2" F x 3/8" M Reducing Adaptor.

Cat. No. TH-52194

1/2" Drive Universal Joint.

Cat. No. TH-52133

1/4" Drive Universal Joint.

Cat. No. TH-50133

3/8" Drive x 8" Ig. Flex Handle

Cat. No. TH-51112

1/2" Drive x 14-1/2" Ig. Flex Handle

Cat. No. TH-52115

THORSEN® COMBINATION WRENCH SETS

Combination Wrench Sets

6 And 10 Piece SAE and Metric Combination Wrench Sets

6 Pc SAE Wrench Set Includes:

3/8", 7/16", 1/2", 9/16", 5/8", 3/4" and a vinyl pouch

Cat. No. TH-34056

6 Pc Metric Wrench Set Includes:

10mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm and a vinyl pouch

Cat. No. TH-44056

10 Pc SAE Wrench Set Includes:

3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" and a vinyl pouch

Cat. No. TH-34060

10 Pc Metric Wrench Set Includes:

8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm and a vinyl pouch

Cat. No. TH-44060



THORSEN® COMBINATION WRENCHES



Combination Wrenches

1/4" to 1" SAE Raised Combination Wrenches.

1/4" Combination Wrench

Cat. No. TH-54008

5/16" Combination Wrench

Cat. No. TH-54010

3/8" Combination Wrench

Cat. No. TH-54012

7/16" Combination Wrench

Cat. No. TH-54014

1/2" Combination Wrench

Cat. No. TH-54016

9/16" Combination Wrench

Cat. No. TH-54018

5/8" Combination Wrench

Cat. No. TH-54020

11/16" Combination Wrench

Cat. No. TH-54022

3/4" Combination Wrench

Cat. No. TH-54024

13/16" Combination Wrench

Cat. No. TH-54026

7/8" Combination Wrench

Cat. No. TH-54028

15/16" Combination Wrench

Cat. No. TH-54030

1" Combination Wrench

Cat. No. TH-54032

WIRE STRIPPERS



Round Cable Rotary Wire Stripper

Can be used on single or multi-conductor cable up to 1.75". Blade will cut around the cable jacket as well as slit the length for easy removal. Spare blades included (storage in handle).

Cat. No. 12-197



Maxim Universal Wire Stripper

The Maxim is a self adjusting wire stripping/cutting tool for PVC insulated wires and cables from 28 AWG (0.08 mm²) to 10 AWG (6.0 mm²). The Maxim is a fast, safe and more precise alternative to a knife, side cutters or less efficient tools available. The Maxim utilizes a new "closed loop" cam mechanism which produces a greater power to torque ratio than existing tools to reduce operator fatigue. The Maxim uses the well proven laminated stripping blade system. This allows the blades to adapt and form around the insulation of round, oval or flat cables to avoid damage to the conductors during stripping. The Maxim incorporates a direct drive cutter for powerful but controlled cable cutting of up to 10 AWG (6.0 mm²) conductors.

Features:

- Powerful – new cam design gives greater mechanical advantage to reduce operator fatigue.
- Precise – laminated blade design strips any shape of PVC insulation without damage to the conductors.
- Automatic – no adjustment slides or screws required.
- Integral wire cutter – fully recessed into the housing and incorporates a sight window to ensure a clean square cut without damaged strands or conductors.
- Fast – easy access for stripping and cutting increases productivity.
- Safe and Ergonomic – designed with no exposed cutting blades and smooth housing to insure a comfortable fit in the operators hand.
- Versatile – for use with a wide range of wire types from miniature electronic to power rated wires.
- Repeatable strip lengths – available with quick fit wire stops to set strip lengths from 0.12" (3 mm) to 0.71" (18 mm).
- Durable Construction – all critical components are manufactured from high grade hardened steel. The body is molded from glass reinforced nylon to withstand the routines of the harshest working environment.

Specifications:

Stripping capacity: 28 AWG (0.08 mm²) to 10 AWG (6.0 mm²)

Cutting capacity: 10 AWG (6.0 mm²) stranded, 12 AWG (4.0 mm²) solid

Dimensions: 8.07" (205 mm) x 4.13" (105 mm) x .75" (19 mm)

Weight: 0.44 lbs. (0.2 kg.)

Cat. No. 12-175



Rotary Action Pocket Stripper

The pocket stripper is a self-adjusting wire stripping/cutting tool for flexible power supply cables up to .35" (9 mm) in diameter. This unique tool is the safe alternative to the knife in preparing cables in industrial, electronic and electrical applications. The enclosed blade and rounded tool body ensures completely safe operation. The patented stripping design ensures that the conductor will not be damaged. The compact design makes it ideal for every tool kit.

Features:

- Preset – no adjustments required.
- Integral wire cutter – guillotine action ensures clean, square cuts.
- Precise – rotary action design gives clean cuts with no damage to the conductors.
- Safe – no exposed blades.
- Versatile – strips inner and outer insulation from a wide range of power supply cables.
- Rugged – simple encapsulated design enables it to withstand the roughest treatment.
- Handy – pocket sized design is ideal for tool kits.
- Ten packed in GC Tool Countertop Display.

Specifications:

Stripping capacity: Round/oval cables up to .35" (9 mm) diameter

Cutting capacity: Flexible cables up to 16 AWG (1.5 mm²)

Dimensions: 3.54" (90 mm) x 1.50" (38 mm) x .71" (18 mm)

Weight: 1.34 oz. (35 gms.)

Cat. No. 12-540



Speed-O-Matic Wire Stripper

Features "Fully Automatic Delayed Action" to prevent crushing fine wires. Speed-O-Matic has narrow, easy-grip, handles and interchangeable blades. Patent No. 2,755,691.

- For Sizes 12 to 20 Wire 18 to 28 ga. Teflon Stripper
- Cat. No. 766**
- For Sizes 14 to 30 Wire **Cat. No. 766-TEF**
- Cat. No. 766-A** Display Carded 766-I
- For Sizes 10 to 18 Wire **Cat. No. 766-IP**
- Cat. No. 766-B** Display Carded 766-C
- For Sizes 8 to 22 Wire **Cat. No. 766-CP**
- Cat. No. 766-I**



Wire Stripper Kits

Kits include wire stripper and 3 sets of replaceable blades—for 14 to 30 AWG wire and RG-58 and RG-59 coaxial cable. Packed in special plastic storage box. Perfect for the electronic and electric prototype shop, experimental laboratory, home workshop, as well as maintenance and production applications.

Speed-O-Matic Stripper Kit
Cat. No. 766-K



Fully Automatic Wire Stripper

Stripper is so automatic that all you need to do is insert any insulated wire and squeeze the handles. Repetitively strips perfectly every time and automatically adjusts to any wire from 26 gauge up to 10 gauge. It will not strip Teflon insulation but neatly handles all other standard insulations. Blades are of an advanced sintered steel material and will yield long life.

Wire Stripper
Cat. No. 12-155
Replacement Blade Set
Cat. No. 12-166



Electrician's Scissors

For cutting soft, thin gauge wire or metal. With double notches for stripping. This hot-drop forged tool is more durable than most and a good tool for both the lab and a field technician's tool case.

Cat. No. 12-292



Round Cable and Wire Cutter

Cuts multi-conductor cable up to .500 inch (12.7 mm) and solid wire up to 8 AWG (10 mm). Built in return spring. Locking latch. User easy grip. Hardened steel cutting blades.

Cat. No. 12-462



One Step Stripper

- Quickly and easily strips RG-59 & RG-6 cables for CATV.
- No adjustments needed – spring action adjusts cutting depth automatically.
- Replaceable blade cassette lasts 1,000 – 2,000 strips.
- Convenient built-in belt clip.

One Step Stripper
Cat. No. 12-551



Kwik-Strip Coax Stripper

Cuts and strips RG-58/U or RG-59/U coaxial cables. Toggle latch keeps stripper closed when not in use. Precision ground cutter blades are replaceable. 3-1/4" x 2-1/8" x 1-1/4". Weighs 2.6 oz.

On Display card
Cat. No. 12-164
Replacement Blade Set
Cat. No. 12-165



2-Level Coax Stripper

Designed for "F" type, single crimp BNC/TNC, twist-on BNC/TNC, Twin-ax, UHF connectors, RG-6, RG-58, RG-59 and RG-62 coax. Strips braid and dielectric to .250" (6.4 mm). Stripper is adjustable and will accept 2 & 3 level replacement blade cartridges.

Cat. No. 12-171
2-level replacement blade cartridges
Cat No. 12-173



3-Level Coax Stripper

For dual crimp BNC/TNC, Thinnet BNC connectors, RG-6, RG-58, RG-59 and RG-62 coax. Strips braid and dielectric to .109" (2.8 mm). Stripper is adjustable and will accept 2 & 3 level replacement blade cartridges.

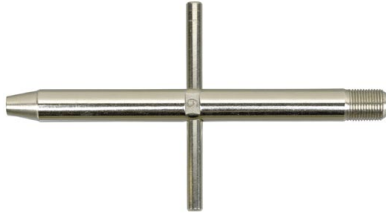
Cat. No. 12-172
3-level replacement blade cartridges
Cat No. 12-174



3 in 1 Wire Stripper

This multi-function, fully adjustable stripper is simple to operate, safe and inexpensive. Can be used on RG-58, RG-59 and RG-62 coax, flat telecom wire and 16-26 AWG wire.

Cat. No. 12-178



Combination Prep Tool for Coax Cable

Attach twist-on "F" connectors like a professional when you use this convenient cable preparation tool. One end quickly enlarges space between shield and insulation with a simple twist of the wrist. The other end is threaded to hold "F" connectors snugly, while perfectly placing them onto coax cable, ready to crimp. Nickel-chrome, T-shaped tool easily fits into pocket or tool box.

RG-6 Cable
Cat. No. 12-390

RG-59 Cable
Cat. No. 12-395



Strip-Er-Clip

Features an 8-stop gauge (for wires No. 12 to 26) which adjusts instantly to correct wire size. Made of heat-treated tool steel with specially-ground cutting edges for fast, effortless stripping, a heavily insulated grip for comfort and streamlined jaws for use in tight spots. Economical.

Cat. No. 12-760



Coaxial Stripper

For stripping RG-58, RG-59, and RG-62 coaxial cable. Equipped with two blades allowing you to strip the insulation and dielectric in the same action.

Cat. No. 12-458

Replacement Blades
Cat. No. 12-468



ThorSelect™ Two Level Coax Stripper

Two level stripper for RG-6, RG-59 and RG-62. Cutting blade is rated for 1500 drop cable preparations. Molded from high impact Delrin and has integral blade for versatility and ease of use. Made in U.S.A.

Cat. No. 12-501



ThorSelect™ Three Level Coax Stripper

Three level stripper for RG-58, RG-59 and RG-62. Cutting blade is rated for 1500 drop cable preparations. Molded from high impact Delrin and has integral blade for versatility and ease of use. One tool works on all braid and shielding variations. Made in U.S.A.

Cat. No. 12-531



Line Cord Stripper

Multi-function tool cuts/strips flat telephone line cord. For RJ-11 & RJ-45 modular plugs. A built-in stripping guide assures correct strip lengths.

Cat. No. 12-176



Professional UTP Wire Stripper

This multi-purpose Tele-stripper is a versatile product for cable preparation. The tool will slit and strip twisted pair cable.

Features:

- Long life cutting blades for all stripping and slitting functions.
- Strip and slit lengths may be varied to accommodate different connector requirements.
- The user friendly tool is molded from highly visible, durable Delrin Super-Tuff.
- A recessed cutting surface slits long runs for twisted pair cable.
- A stripping feature with multiple nest cavities allows the removal of a wide variety of jacket materials on twisted pair cable. Disengage tension loop for thin jacketed cable.
- A strip length gauge is molded into the side of the tool.

Cat. No. 12-532



UTP Wire Stripper

The UTP Wire Stripper takes the guesswork out of removing the cable jackets from many types of twisted pair (UTP & STP), multicore (shielded and unshielded) and fibre optic cables. This multipurpose tool will adapt itself to accept cable diameters up to 0.43" (11 mm). It is designed for long blade life and to cut into the insulations while leaving the conductors undamaged. It can be used for voice, video, audio, security and many other applications.

Features:

- Safety – the cutting blade is recessed into the housing.
- One piece design – the tool comes complete and ready to use right out of the package.
- Self-adjusting – will provide the user with the widest range of stripping options. The tool will adjust automatically to cut PVC, plenum rated materials and others without damaging the braids, foils or conductors.
- Typical applications – Data: Ethernet (10 Base T), Token Ring (IBM Cabling Types 1 & 6), Appletalk, and ISDN; Voice: Premis Distribution.
- Ten packed in GC Tool Countertop Display.

Specifications:

Stripping Capacity: Round/oval cables up to 0.43" (11 mm) in diameter.

Dimensions: 3.54" (90 mm) x 1.50" (38 mm) x 0.71" (18 mm).

Weight: 1.34 oz. (35 gms.)

Cat. No. 12-545



Manual Wire Wrap

Wraps 30 AWG (.254 mm) wire onto .025" wire wrap posts. In addition, it unwraps as well as strips 30 AWG wire nick-free. The tool also makes a modified style of wrap in which approximately 1-1/2 turns of insulated wire are wrapped in addition to the bare wire for purposes of added mechanical stability.

Cat. No. 12-600



Dual Wrap Tool

The GC Dual Wrap Tool wraps, strips and unwraps 22 and 24 AWG solid hookup wires. The tool fits over .045" square posts. Extremely simple to use in all three operations. Tool is lightweight, durable, pocket sized.

Cat. No. 12-603



Wire Wrap

Each spool contains 100 ft. of silver plated, solid 30 AWG KYNAR® wire.

Red
Cat. No. 12-636

White
Cat. No. 12-634

Blue
Cat. No. 12-630

Yellow
Cat. No. 12-632

9000 SERIES PROFESSIONAL RATCHETING CRIMP TOOL

Heavy Duty Crimping Tool

Frame only

Cat. No. 12-9000

Heavy duty steel construction. Compound leverage for ease of operation.

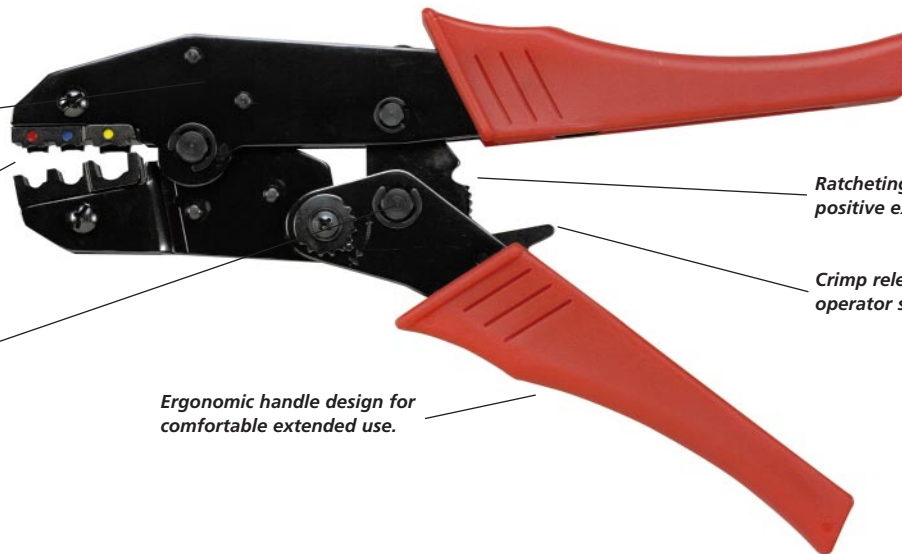
Wide selection of interchangeable dies. Dies are marked with application.

Crimp pressure adjustment.

Ergonomic handle design for comfortable extended use.

Ratcheting design insures positive exacting crimps.

Crimp release for operator safety.

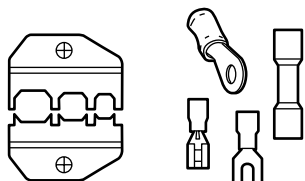


Description	Complete Tool Catalog Number	Replacement Die Set
22-10 AWG Insulated Terminals, Color Coded Nests	12-9001	12-9101
22-12 AWG Non-Insulated Terminals	12-9002	12-9102
22-10 AWG Full Insulated Quick Disconnect Terminals with Thinner Wire Barrels	12-9003	12-9103
RG-58, 59/62 BNC/TNC Coax Connectors	12-9004	12-9104
Cambridge CP-88, CP-89, RG-58, 59/62 BNC/TNC	12-9005	12-9105
22-8 AWG Non-Insulated Terminals	12-9006	12-9106
16-26 AWG Mini Insulated Rings, Spade and Butt Splices	12-9007	12-9107
Fiber Optic SMA, SMB, SFR Connectors	12-9008	12-9108
AMP Fiber Optic SMA or SFR Type Connectors	12-9009	12-9109
RG-58/174 and Belden 8218, 50 & 75 Ohm Cables	12-9010	12-9110
RG-59, RG-6, 8281 50 and 75 Ohm Cables	12-9011	12-9111
N-Series RG-8/11 Connectors	12-9012	12-9112
RG-174, Mini 59 BNC/TNC Connectors	12-9013	12-9113
RG-6, RG-174, 8281 Cable	12-9014	12-9114
Twinax (Hex)	12-9015	12-9115
Plenum & Non-Plenum, Thinwire also Teflon	12-9016	12-9116
AMP Thinwire Dual Crimp BNC Coax Connectors	12-9017	12-9117
AMP RG-58 Dual Crimp BNC/TNC Coax Connectors	12-9018	12-9118
AMP RG-59/62 Dual/Crimp BNC/TNC Coax Connectors	12-9019	12-9119
Mini UHF and BNC/TNC 5 Cavity	12-9020	12-9120
RG-59, RG-6 F-Type CATV Connectors	12-9021	12-9121
Modular Plug RJ-45 8 Position Keyed or Non-Keyed	12-9022	12-9122
Modular Plug RJ-11 2, 4, & 6 Position	12-9023	12-9123
Modular Plug DEC MMJ 6 Position with an Offset Release Tab	12-9024	12-9124
Modular Plug AMP RJ-45 8 Position/Primary Strain Relief is Located Further Back on Die	12-9025	12-9125
Modular Plug RJ-22 2 & 4 Position	12-9026	12-9126

Die Sets for 9000 Series Professional Ratcheting Crimp Tool

- Interchangeable with any 9000 Series Ratcheting Crimp Tool
- Wide range of applications
- Quick die change (2 screws)
- Precision tool grade steel

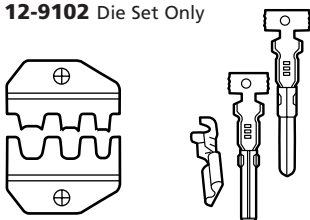
12-9101 Die Set Only



22-10 AWG
(.324 mm² – 5.261 mm²)
Insulated Terminals,
Color Coded Nests

Tool with Die **12-9001**

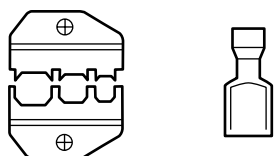
12-9102 Die Set Only



22-12 AWG
(.324 mm² – 3.31 mm²)
Non-Insulated Terminals

Tool with Die **12-9002**

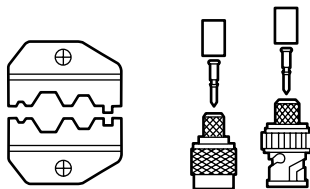
12-9103 Die Set Only



22-10 AWG
(.324 mm² – 5.261 mm²)
Full Insulated Quick
Disconnect Terminals
with Thinner Wire
Barrels

Tool with Die **12-9003**

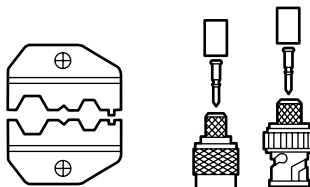
12-9104 Die Set Only



RG-58, 59/62 BNC/TNC
Coax Connectors
(Hex, 0.255 (6.48 mm),
0.213 (5.41 mm), 0.068
(1.73 mm))

Tool with Die **12-9004**

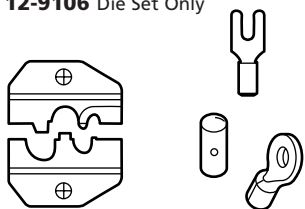
12-9105 Die Set Only



Cambridge CP-88, CP-89,
RG-58, 59/62 BNC/TNC
(Hex, 0.305 (7.75 mm),
0.068 (1.73 mm), 0.228
(5.79 mm))

Tool with Die **12-9005**

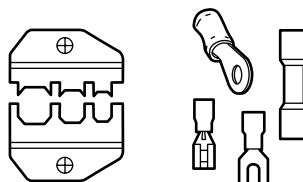
12-9106 Die Set Only



22-8 AWG
(.3 mm² – 8 mm²)
Non-Insulated Terminals

Tool with Die **12-9006**

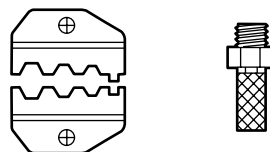
12-9107 Die Set Only



16-26 AWG
(1.31 mm² – .128 mm²)
Mini Insulated Rings,
Spade and Butt Splices

Tool with Die **12-9007**

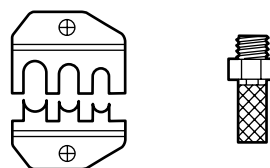
12-9108 Die Set Only



Fiber Optic SMA, SMB,
SFR Connectors
(Hex, 0.151 (3.84 mm),
0.178 (4.52 mm), 0.213
(5.41 mm))

Tool with Die **12-9008**

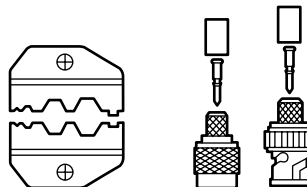
12-9109 Die Set Only



AMP Fiber Optic SMA or
SFR Type Connectors
(Round, 0.195 (4.95 mm),
0.165 (4.19 mm), 0.138
(3.51 mm))

Tool with Die **12-9009**

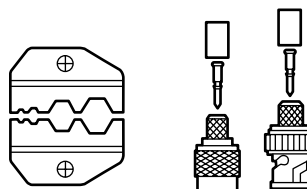
12-9110 Die Set Only



RG-58/174 and Belden
8218, 50 & 75 Ohm Cables
(Hex, 0.213 (5.41 mm),
0.178 (4.52 mm), 0.068
(1.73 mm), 0.042 (1.07 mm))

Tool with Die **12-9010**

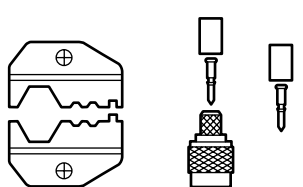
12-9111 Die Set Only



RG-59, RG-6, 8281 50 and
75 Ohm Cables
(Hex, 0.324 (8.23 mm),
0.255 (6.48 mm), 0.068
(1.73 mm), 0.042 (1.07 mm))

Tool with Die **12-9011**

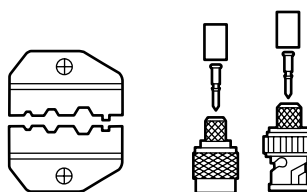
12-9112 Die Set Only



N-Series RG-8/11
Connectors
(Hex, 0.429 (10.90 mm),
0.100 (2.54 mm), 0.080
(2.03 mm))

Tool with Die **12-9012**

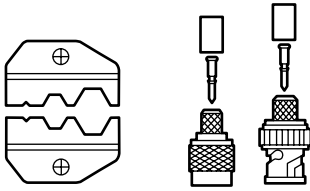
12-9113 Die Set Only



RG-174, Mini 59
BNC/TNC Connectors
(Hex, 0.178 (4.52 mm),
0.128 (3.25 mm), 0.068
(1.73 mm))

Tool with Die **12-9013**

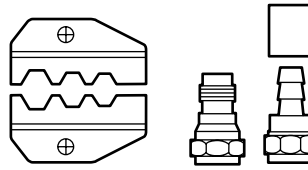
12-9114 Die Set Only



RG-6, RG-174, 8281 Cable
(Hex, 0.324 (8.23 mm),
0.178 (4.52 mm), 0.068
(1.73 mm))

Tool with Die **12-9014**

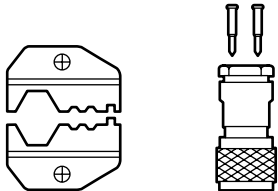
12-9121 Die Set Only



RG-59, RG-6 F-Type
CATV Connectors
(Hex, 0.350 (8.89 mm),
0.320 (8.13 mm), 0.255
(6.48 mm))

Tool with Die **12-9021**

12-9115 Die Set Only

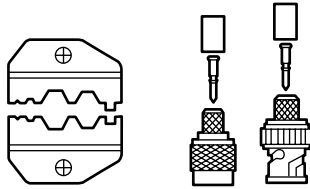


Twinax
(Hex, 0.429 (10.90 mm),
0.075 (1.90 mm), 0.075
(1.90 mm))

Tool with Die **12-9015**

TELEPHONE

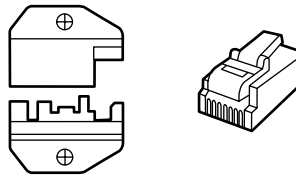
12-9116 Die Set Only



Plenum & Non-Plenum,
Thinwire also Teflon
(Hex, 0.213 (5.41 mm),
0.190 (4.83 mm), 0.068
(1.73 mm), 0.042
(1.07 mm))

Tool with Die **12-9016**

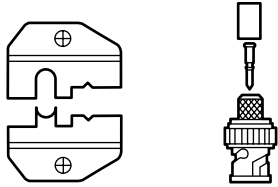
12-9122 Die Set Only



Modular Plug RJ-45
8 Position Keyed or
Non-Keyed

Tool with Die **12-9022**

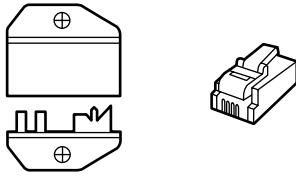
12-9117 Die Set Only



AMP Thinwire Dual
Crimp BNC Coax
Connectors
("0", 0.202 (5.13 mm),
0.042 (1.07 mm), box
center pin)

Tool with Die **12-9017**

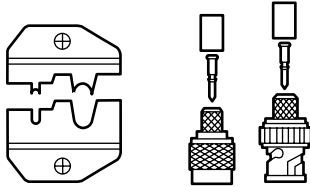
12-9123 Die Set Only



Modular Plug RJ-11 2, 4,
& 6 Position

Tool with Die **12-9023**

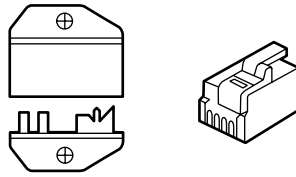
12-9118 Die Set Only



AMP RG-58 Dual Crimp
BNC/TNC Coax
("0", 0.218, .049)

Tool with Die **12-9018**

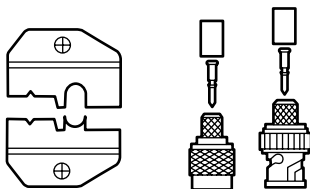
12-9124 Die Set Only



Modular Plug DEC MMJ
6 Position with an
Offset Release Tab

Tool with Die **12-9024**

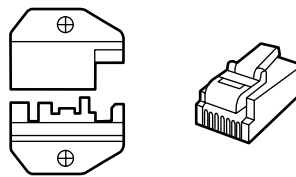
12-9119 Die Set Only



AMP RG-59/62
Dual/Crimp BNC/TNC
Coax Connectors
("0", 0.240, .042, box
center pin)

Tool with Die **12-9019**

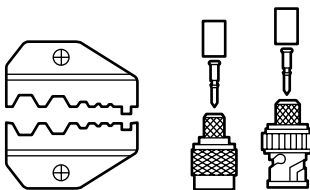
12-9125 Die Set Only



Modular Plug AMP
RJ-45 8 Position/Primary
Strain Relief is Located
Further Back on Die

Tool with Die **12-9025**

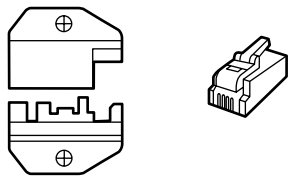
12-9120 Die Set Only



Mini UHF and BNC/TNC
5 Cavity
(Hex, 0.052 (1.32 mm),
0.068 (1.73 mm), 0.100
(2.54 mm), 0.213 (5.41 mm),
0.255 (6.48 mm))

Tool with Die **12-9020**

12-9126 Die Set Only



Modular Plug RJ-22 2 &
4 Position

Tool with Die **12-9026**

INSTALLER CRIMP TOOLS



Crimping Tool & Terminal Assortment

Crimps solderless terminals. Assortment of non-insulated terminals included. Strips wire from 22-10 gauge. Built-in cutter allows wire to be cut to desired length. Steel constructed with insulated grips. 7" long.

Cat. No. 12-400



Coax Crimp Tool

Designed for coaxial fittings on RG-59, RG-6 and RG-11 coaxial cable. The compound action and heavy-cushioned handles makes crimping effortless. Made of tempered steel. 8" long.

Cat. No. 12-450



Small Blade Copper Wire Shears

Oval head width of .290" (7.36 mm) and an end profile of .010" (.3 mm) radius cuts between SMD leads as close as .040" (1 mm) center to center. Cuts copper wire up to .04" (1 mm).

Cat. No. 12-7404



5-in-1 Crimping Tool

Universal tool serves as a crimper, wire cutter, stripper and pliers as well as a 6-range bolt cutter. Crimps solderless terminals including ring tongue, quick disconnect and butt style. Cuts copper wire. Strips 22-10 gauge wire. Serrated edges at nose of tool make it useful as pliers. Cuts bolts #4-#10. All operations clearly marked. Made of high-quality steel with precision-ground cutting edges and insulated handles. 8" long.

Cat. No. 8175



Compression Crimp Tool

For RG-6 cable with SD-446-BU weatherproof connector.

Cat. No. 12-556



Telco® Crimping Tool

These tools do a fast clean cut strip and crimp of Telco/Telephone wire for application of modular connectors, and are available in three sizes for your crimping needs.

8-contact Professional

Cat. No. 12-001

4 & 6-contact Professional

Cat. No. 12-004

Modular Hand Set 4-contact

Cat. No. 12-005

10-contact Professional

Cat. No. 30-9955



Crimping Tool For "F" Connectors

Makes an excellent hex crimp in "F" Type and BNC connectors. Use RG-58, RG-59 and RG-62 cable.

Cat. No. 12-455



Coaxial Center Conductor Cutter

Trims coax center conductor to 3/16" length for precise installation into dual crimp coax connector.

Cat. No. 12-461

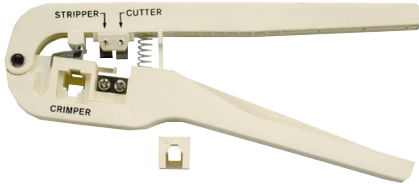


Dura Crimp

The Duracrimp modular crimp tool will crimp 4 & 6 contact modular plugs as well as 4 position handset plugs. This tool is lightweight, durable, and accurate. The built in blade provides a clean strip of the cable.

Cat. No. 12-002

**IMPACT TOOL
AND BLADES**



**Modular Crimp Tool
4-Conductor**

Makes it easy to install 4 conductor modular plugs on modular line cord. Also crimps 4-conductor handset plugs. Has built-in wire stripper and cutter.

Cat. No. 12-9951
Cat. No. 30-9951



IDC Crimp Tool

For crimping many styles of I.D.C. Connectors onto flat cable (A.K.A. ribbon cable). Works with card edge connectors, D-Sub, Centronics style and others. A good tool for the custom cable maker, short production runs, etc. All steel with cushion grips.

Cat. No. 12-463



**Adjustable Impact Punch
Down Tool**

Professional impact tool terminates and cuts wires on 66 and 110 pin blocks. Hi, low impact adjustment. Both 66 and 110 blades included. Convenient blade storage in handle prevents blade loss. Positive blade lock. Comfortable ergonomic design.

Cat. No. 12-5700
Replacement Blades - Blade 66
Cat. No. 12-5701
Blade 110
Cat. No. 12-5702



Modular Crimp Tool

Multi-function, cuts - strips - crimps. For RJ-11 and RJ-45 modular 6 and 8 way connectors. Heavy duty steel frame for dependable long life.

Cat. No. 12-454



D-Sub/Double-D Service Tool

Crimps stamped contacts and D-Sub contacts, also Double-D high density contacts. Open barrel design. Replacement for AMP open barrel service tool. Includes openings for crimping insulated terminals and cutters for machining tools.

Cat. No. 12-464



**Crimping Tool
For "D" Subminiature Connectors**

Crimps both standard solderless terminals in sizes 10-22 AWG and D-Subminiature contacts. Tool is all steel with black parkerized finish with cushion-grip handles.

Cat. No. 12-460



4-Way Indent Crimper

This tool is used to crimp closed barrel, screw machine pin and socket style contacts. Performs a simultaneous 4 indent crimp for superior contact retention. Crimper has built-in locators for fast, precise contact alignment, full cycle ratchet action on a high carbon tool steel frame covered with a rust resistant black oxide finish and vinyl handles. For use on 26-20 AWG D-sub contacts.

Cat. No. 12-466



Dual Cut & Crimp Tool

Cuts and crimps 2c, 4c, 6c, 8c line cord plugs.

Cat. No. 12-2468

ADJUSTMENT AND ALIGNMENT TOOLS



2 In 1 Ceramic Adjuster

Includes 1.8 mm Flat blade and 3.0 mm Phillips. Non-slip handle securely holds ceramic adjusting tip. Removable protective cap fits directly on tip, or can be used with handle, as an extension. Completely insulated, nonmagnetic and anti-static. Resists heat up to 1000°C. Resists acids (except Hydrofluoric) and solder.

Cat. No. 12-575



4 In 1 Ceramic Adjuster

Includes .9, 1.8, 2.6 mm Flat blade and 1.7 mm Phillips. Non-slip handle securely holds ceramic adjusting tip. Removable protective cap fits directly on tip, or can be used with handle, as an extension. Completely insulated nonmagnetic and anti-static. Resists heat up to 1000°C. Resists acids (except Hydrofluoric) and solder.

Cat. No. 12-576



Ceramic Adjuster Set

Six sizes include Flat Blade .9, 1.3, 1.8, 2.6 mm and Phillips. 1.7 and 3.0 mm. These adjusters are anti-static and nonmagnetic. Protective caps are included to keep tips clean and contamination-free. Solder does not adhere to tip surface. Resists acids (except Hydrofluoric) and solder. Comfortable, smooth handles and tips are 100% rustproof. Packaged in form-fitted storage tray.

Cat. No. 12-577



TV Service Mirrors and Stands

An invaluable aid for TV behind-the-set adjustments. Large 10" x 12" mirrors in nickel plated frames. Clear, distortion-free image. Stand is fully adjustable for height and swivel in all directions—folds for easy moving or storage.

Plexiglass Mirror Only

Cat. No. 8378

Adjustable Stand Only

Cat. No. 8379

ALIGNMENT TOOL KITS



All Purpose Alignment Tool and Service Aid Kit

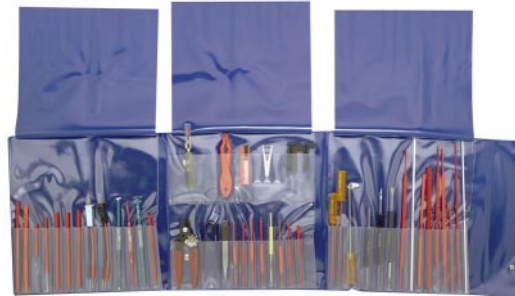
Selection of the most popular TV alignment tools and service aids, all in one attractive, durable plastic case. Roll-up case stores easily in service kit.

Kit contains 1 each:

- 5097** K-Tran Tool
- 8271** Core Aligner
- 8276** Duplex Aligner
- 8289** "Shorty" Aligner
- 8606** Hex Wrench—5"
- 8729** Screwdriver—16"
- 8988** Screwdriver
- 9050-L** Zenith Alignment Tool
- 9088** Brush/Forked Tip Tool
- 9089** TV Aligner
- 9091** Hex Wrench Core Tool
- 9297** Hex Alignment Tool

Cat. No. 5040

N.S.N. 5120-00-020-1360



Alignment and Specialty Kit

Comprehensive selection of the most popular alignment tools and service aids. Packaged in a handsome carrying case, designed to provide easy removal and replacement of tools. Ideal for the technician and engineer who requires a wide variety of tools for every purpose.

Kit contains 1 each:

- | | | |
|-------------------------------------|--|---------------------------------|
| 12-760 Wire Stripper | 8721 2-IN-1 Tool—9" | 9295 Delrin Hex Tool—11" |
| 5000 Alignment Screwdriver | 8722 2-in-1 Tool—7" | 9296 Delrin Hex Tool—11" |
| 5004 Adjustment Screwdriver | 8728 Alignment Tool—12" | 9300 Hex Core Tool |
| 5028 Wrench Kit | 8728-A Screwdriver—7" | 9302 Hex Wrench |
| 5090 Inspection Mirror | 8867 Tel-A-Turn Tool | 9304 Double End Tool |
| 5091 Extension Shaft | 8868 Tel-A-Turn Tool | 9338 Burnishing Tool |
| 5097 K-Tran Tool | 8869 Tel-A-Turn Tool | 9356 Fuse Puller |
| 5100 Neo-Lite Tester | 8885 Oiler | 9440 Transistor Tool |
| 5105 Lo Volt Tester | 8987 Screwdriver—9-1/2" | |
| 7948 Tweezers | 9076 Reamer/Forked Tip Tool | |
| 8195 TV Channel Tuning Tool | 9077 Heat Sink | |
| 8271 Core Aligner | 9089 TV Aligner | |
| 8275 Universal Aligner | 9091 Hex Iron Core Tool—5-3/32" | |
| 8276 Duplex Aligner | 9091-L 11" Hex Tool | |
| 8277 "Shorty Duplex Aligner" | 9093 Solder Probe | |
| 8282 Zenith Alignment Tool | 9094 Brush/Scrapper Tool | |
| 8605 Capacitor Tool | 12-4614 I.C. Removal Tool | |
| 8606 Hex Wrench—5" | 9293 Alignment Tool—12" | |
| 8606-L Hex Wrench—11" | | |

Cat. No. 5050

N.S.N. 5120-00-020-1360



Deluxe Alignment Tool Kit

Handy roll type case of durable leatherette that contains the most frequently used alignment tools. Case has fold-over flap to prevent tools from becoming lost.

Kit contains 1 each:

- 2515** K-Tran Tool
- 5066** Neutralizing Tool
- 5080** Alignment Wrench
- 8195** TV Channel Tuning Tool
- 8196** TV-FM Tuning Tool
- 8271** Core Aligner
- 8273** TV Aligner
- 8274** Long-Reach Aligner
- 8275** Universal Aligner
- 8276** Duplex Aligner
- 8277** Shorty Duplex Aligner
- 8278** Tuning Wand
- 8279** Core Aligner
- 8282** Zenith Alignment Tool
- 8606** Hex Wrench—5"
- 8608** Potentiometer Adjustment Tool

Cat. No. 8280

N.S.N. 5180-00-715-6062



Radio-Television Alignment Tool Kit

Designed for the electronic technician who likes a complete assortment of alignment and adjustment tools. Includes tools used on mobile communication, marine, and amateur equipment.

Kit contains 1 each:

- | | |
|------------------------------------|--------------------------------------|
| 5000 Alignment Screwdriver | 8279 Core Aligner |
| 5004 Adjustment Screwdriver | 8282 Zenith Alignment Tool |
| 5066 Neutralizing Tool | 8289 Shorty Aligner |
| 5080 Alignment Wrench | 8290 Universal Aligner |
| 5097 K-Tran Tool | 8606 Hex Wrench—5" |
| 8195 TV Channel Tuning Tool | 8609 Alignment Tool |
| 8196 TV-FM Tuning Tool | 8721 2-IN-1 Alignment Tool—9" |
| 8271 Core Aligner | 8722 2-IN-1 Alignment Tool—7" |
| 8273 TV Aligner | 8727 Alignment Tool |
| 8274 Long-Reach Aligner | 8728-A Screwdriver—7" |
| 8275 Universal Aligner | 8867 Tel-A-Turn Tool |
| 8276 Duplex Aligner | 9090 Adjustable Shorty Tool |
| 8277 Shorty Duplex Aligner | |

Cat. No. 8283

N.S.N. 5120-00-949-8368



Universal Color TV Alignment Tool Kit

Five different alignment tools for all standard adjustments on color TV sets. All tools are made of Delrin in various colors for easy identification. Included is the "Extend-it" to make long reach aligners out of each tool. This handy kit is packaged in a pocket-saver pouch. Compact, neat package for color TV alignment.

Kit contains 1 each:

- "Extend-it" Shaft Extension
- 8282** Zenith Alignment Tool
- 9091** Hex Iron Core Tool
- 9300** Hex Core Tool
- 8606** Hex Wrench—5"
- 9304** Double End Tool

Cat. No. 8454



Standard TV Alignment Tool Kit

Made to last and wear—a quality kit with essential alignment tools in a roll type case.

Kit contains 1 each:

- 5004** Adjustment Screwdriver
- 5097** K-Tran Tool
- 8195** TV Channel Tuning Tool
- 8196** TV-FM Tuning Tool
- 8271** Core Aligner
- 8273** TV Aligner
- 8274** Long Aligning Tool
- 8275** Universal Aligner
- 8276** Duplex Aligner

Cat. No. 8455

N.S.N. 5180-00-760-2114



TV-FM Alignment Tool Kit

Here, in one handy leatherette case, are all the necessary tools for aligning any TV or FM set.

Kit contains 1 each:

- "Extend IT" Shaft Extension
- 2512** Wire Dressing Tool
- 2515** K-Tran Tool
- 2520** Duplex Aligner
- 2522** Turret Tuner Tool
- 8273** TV Aligner
- 8279** Core Aligner
- 8282** Zenith Alignment Tool
- 8289** Shorty Aligner
- 8722** 2-in-1 Alignment Tool—7"
- 9051** Zenith-RCA Alignment Tool
- 9087** Coil Slug Adjusting

Cat. No. 580

N.S.N. 5180-00-996-8673



"Lucky 13" General Purpose Alignment Tool Kit

For TV sets, AM-FM radios and CB equipment.

Kit contains 1 each:

- 2512** Wire Dressing Tool
- 2515** K-Tran Tool
- 2520** Duplex Aligner
- 8282** Zenith Alignment Tool
- 8289** Shorty Aligner
- 8279** 2-in-1 Alignment Tool—7"
- 8867** Tel-A- Turn Tool
- 8868** Tel-A- Turn Tool
- 8869** Tel-A- Turn Tool
- 8885** Oiler
- 9051** Zenith-RCA Alignment Tool
- 9088** Brush/Forked Tip Tool
- 9291** Screwdriver—7"

Cat. No. 582

N.S.N. 5180-00-868-3780



CB Alignment Tool Kit

A must for every CB owner or repairman—eight of the finest made, precision tools, serving a multitude of purposes. For tuning I.F. transformers, RF coils, antennas and oscillator coils, plus countless other fine, intricate adjustments.

- Kit contains 1 each:
5009 Duplex No-Metal Screwdriver
5097 K-Tran Tool
8271 Core Aligner
8276 Duplex Aligner
8282 Zenith Aligner Tool
9091 Hex Iron Core Tool
9440 Transistor Tool
9304 Double End Tool
Cat. No. 18-530

Anti-Static Alignment Tools

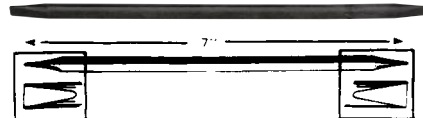
In response to the problems that static electricity causes in modern electronic circuitry, GC Electronics offers a series of anti-static alignment tools. Nine part numbers are available. Dimensionally, these tools are the same as items that have been produced for many years. Electrically, the tools are conductive, made of a tough conductive nylon. Thus, the tools are not able to retain a static charge. Use of these tools is suggested whenever servicing or aligning equipment containing static-sensitive devices. Further protection by employing industry accepted procedures (i.e. operator grounding wrist-straps, etc.) is strongly urged. These tools can be recognized by an "AS" prefix added to the traditional GC catalog number. Other GC tools can be made of the new material for quantity purchasers. Please contact the Rockford factory with your requirements.

These tools are made of conductive nylon. Not for use on high voltage circuitry.

Anti-Static Alignment Tool Kit

Kit contains all nine anti-static alignment tools. The wide range of tip styles and sizes assures that the user will have a tool for adjusting or aligning any conventional component. Supplied with pocket storage case.

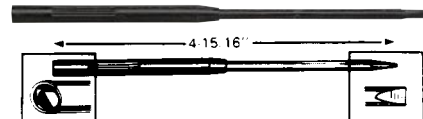
- Kit contains 1 each:
AS-5004 Adjustment Screwdriver
AS-8275 Combination Aligner
AS-8276 Steel Tip Duplex Aligner
AS-8605 Small Hex & Screwdriver
AS-8606 Hex & Tip Tool
AS-8608 Mini Potentiometer & Trimmer Tool
AS-9300 Double Ended Hex Tool
AS-9302 3-in-1 Hex Core Tool
AS-9440 Square & Hex Tool
Cat. No. AS-5007



Adjustment Screwdriver

Material: Conductive Nylon
Shaft: 1/4" (6.3 mm) dia. 7" (17.7 cm) long
Ends: 1/32" thick screwdriver tip (Both Ends)
Total Length: 7" (17.7 cm)

Cat. No. AS-5004

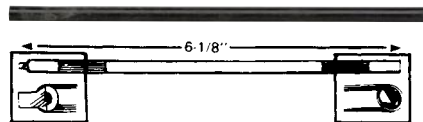


Combination Aligner

Material: Conductive Nylon
Shaft: Long end 1/8" (3.2 mm) dia., 2-1/2" (6.3 cm) long; short end 7/32" (5.5 mm) dia., 2-7/16" (6.2 cm) long
Ends: 1/32" thick screwdriver tip (long end); 1/8" (3.2 mm) wide steel tip, recessed 1/16" (short end)
Total Length: 4-15/16" (12.5 cm)

Cat. No. AS-8275

N.S.N. 5120-00-541-1462

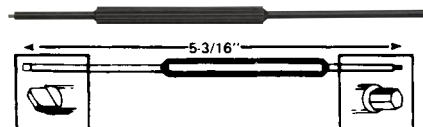


Steel Tipped Duplex Aligner

Material: Conductive Nylon
Shaft: 7/32" (5.5 mm) dia., 6 1/8" (15.5 cm) long;
Ends: 1/8" (3.2 mm) wide steel tip; 1/8" (3.2 mm) wide steel tip, recessed 1/16". Fits no. 6 slotted stud
Total Length: 6-1/8" (15.5 cm)

Cat. No. AS-8276

N.S.N. 5120-00-288-7781



Small Ends Hex & Screwdriver

Material: Conductive Nylon, Hex 0.050"
Ends: Hex (allen) steel 0.050" (1.25 mm), 3/32" (2.4 mm) long; 3/32" (2.4 mm) wide steel screwdriver tip with 3/32" (2.4 mm) shank, 13/4" (4.4 cm) long shank
Total Length: 53/16" (13.2 cm)

Cat. No. AS-8605

N.S.N. 5120-00-724-3767

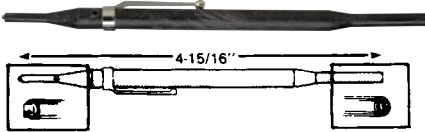


Hex & Special Tip Tool

Material: Conductive Nylon, Hex 0.100"
Ends: Flat screwdriver tip (0.027" thick—0.095" wide), followed by 0.100" hex; 0.100" hex, 7/32" long, undercut shaft to reach bottom slugs in coils
Total Length: 5-3/32" (12.9 cm)

Cat. No. AS-8606

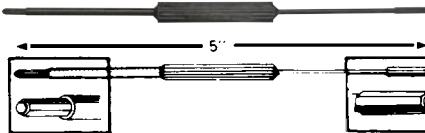
N.S.N. 5120-00-282-7786



Miniature Potentiometer—Trimmer Adjustment Tool

Material: Conductive Nylon Shaft: 1/4" (6.3 mm) dia. 4-15/16" (12.5 cm) long
Ends: .085" (2.2 mm) wide steel tip; .085" (2.2 mm) wide steel tip, recessed .040"
Total Length: 4-15/16" (12.5 cm)

Cat. No. AS-8608



Double Ended Hex Tool

Material: Conductive Nylon, Hex 5/64" (0.078")
Ends: 1/4" long hex, 0.096" dia. shaft; 3/8" long hex, undercut (0.068" dia.) shaft to reach bottom slugs in coils
Total Length: 5" (12.7 cm)

Cat. No. AS-9300

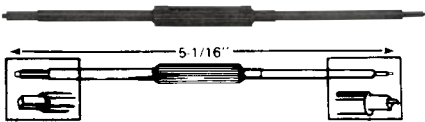


3-in-1 Hex Core Tool

Material: Conductive Nylon, Hex 5/64" (0.078") and 0.100"
Ends: Small (0.078") hex followed by 0.100" hex; 0.100" hex (3/8" long), undercut shaft to reach bottom slugs in coils
Total Length: 5-3/8" (13.7 cm)

Cat. No. AS-9302

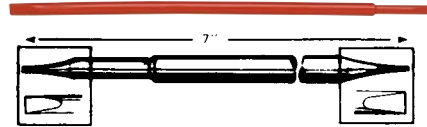
N.S.N. 5120-00-089-8216



Square & Hex Tool

Material: Conductive Nylon, Hex 0.100"
Ends: 0.100" (2.5 mm) hex, 3/8" (9.5 mm) long; 1/16" (0.062"-1.6 mm) square, 1/32" (0.1 cm) long
Total Length: 5-1/16" (12.8 cm)

Cat. No. AS-9440

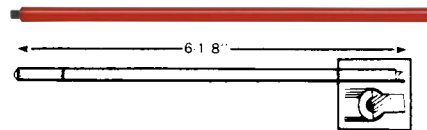


Duplex Alignment Screwdriver

Material: Delrin
Shaft: Long end 7/32" (5.5 mm) dia., 6" (15.2 cm) long; short end 5/32" (4 mm) dia., 1" (2.5 cm) long
Ends: 1/32" thick screwdriver tip (Both Ends)
Total Length: 7" (17.7 cm)

Cat. No. 2520

N.S.N. 5120-00-778-6241

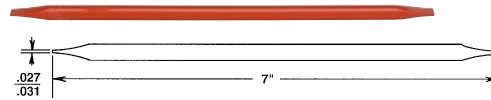


Metal Tip Alignment Screwdriver

Material: Butyrate
Shaft: 7/32" (5.5 mm) dia
Ends: 1/8" (3.2 mm) wide steel tip
Total Length: 6-1/8" (15.5 cm)

Cat. No. 5000

N.S.N. 5120-00-288-7780

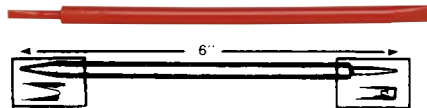


No-Metal Insulating Adjustment Screwdriver

Material: Delrin
Shaft: 1/4" (6.3 mm) dia., 7" (17.7 cm) long
Ends: 1/32" thick screwdriver tip (Both Ends)
Total Length: 7" (17.7 cm)

Cat. No. 5004

N.S.N. 5120-00-508-9755



Duplex No-Metal Alignment Screwdriver

Material: Delrin
Shaft: Long end 1/4" (6.3 mm) dia., 5-1/4" (13.3 cm) long; short end 1/8" (3.2 mm) dia., 3/4" (1.9 cm) long
Ends: 1/32" thick screwdriver tip (Both Ends)
Total Length: 6" (15.2 cm)

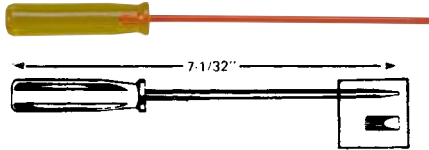
Cat. No. 5009



K-Tran Tool

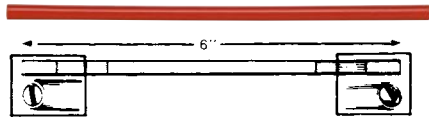
Material: Delrin
Shaft: Long end 1/8" (3.2 mm) dia., 1-1/2" (3.8 cm) long; short end 5/32" (4 mm) dia., 1" (2.5 cm) long
Ends: 1/32" thick screwdriver tip (long end); 1/16" thick screwdriver tip (short end)
Total Length: 6" (15.2 cm)

Cat. No. 5097



Screwdriver with Plastic Handle

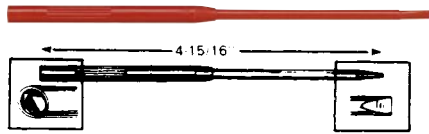
Material: Delrin
Shaft: 1/8" (3.2 mm) dia., 4-21/32" (11.8 cm) long
Ends: 1/32" thick screwdriver tip; 23/8" (6 cm) long screwdriver handle
Total Length: 7-1/32" (17.8 cm)
Cat. No. 8195



TV Core Aligner

Material: Butyrate
Shaft: 7/32" (5.5 mm) dia., 6" (15.2 cm) long
Ends: 1/8" wide tip, recessed 1/16". Fits no. 6 slotted stud; 5/32" (4 mm) dia., slotted tip, recessed 1/16"
Total Length: 6" (15.2 cm)
Cat. No. 8271

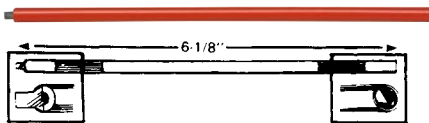
N.S.N. 5120-00-333-9809



Combination Aligner for Zenith & Others

Material: Delrin
Shaft: Long end 1/8" (3.2 mm) dia., 2-1/2" (6.3 cm) long; short end 7/32" (5.5 mm) dia., 2-7/16" (6.2 cm) long
Ends: 1/32" thick screwdriver tip (long end); 1/8" (3.2 mm) wide steel tip, recessed 1/16" (short end)
Total Length: 4-15/16" (12.5 cm)
Cat. No. 8275

N.S.N. 5120-00-541-1462



Steel Tip Duplex Aligner

Material: Butyrate
Shaft: 7/32" (5.5 mm) dia., 6-1/8" (15.5 cm) long
Ends: 1/8" (3.2 mm) wide steel tip, 1/8" (3.2 mm) wide steel tip, recessed 1/16". Fits no. 6 slotted stud
Total Length: 6-1/8" (15.5 cm)
Cat. No. 8276

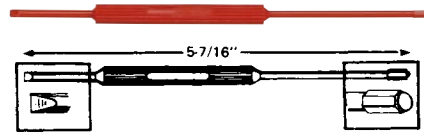
N.S.N. 5120-00-288-7781



Short Steel Tipped Aligner

Material: Butyrate
Shaft: 7/32" (5.5 mm) dia., 2-1/2" (6.3 cm) long (each end)
Ends: 1/8" (3.2 mm) wide steel tip; 1/8" (3.2 mm) wide steel tip, recessed 1/16". Fits no. 6 slotted stud
Total Length: 2-5/8" (6.7 cm)
Cat. No. 8277

N.S.N. 5120-00-840-0604

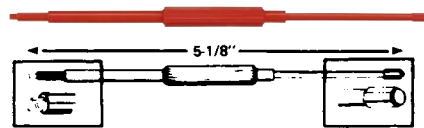


Hex-Screwdriver Combination

Material: Delrin, Hex 0.100"
Ends: Screwdriver (plastic) 1/8" blade; 1/4" long hex, undercut (0.095" dia.) shaft to reach bottom slugs in coils
Total Length: 5-7/16" (13.8 cm)
Cat. No. 8282

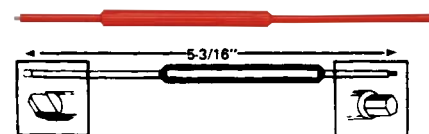
N.S.N. 5120-00-572-3237

N.S.N. 5120-00-767-7582



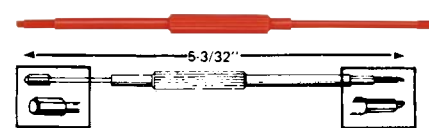
Magna Tuning Tool

Material: Delrin, Hex 0.100"
Ends: Flat screwdriver tip (0.027" thick—0.080" wide), followed by 0.080" hex; 0.100" hex, 7/32" long, undercut shaft to reach bottom slugs in coils
Total Length: 5-1/8" (13 cm)
Cat. No. 8284



Small Ends Hex & Screwdriver

Material: Delrin, Hex .050"
Ends: Hex (allen) steel 0.050" (1.25 mm), 3/32" (2.4 mm) long; 3/32" (2.4 mm) wide steel screwdriver tip with 3/32" (2.4 mm) shank, 1-3/4" (4.4 cm) long shank
Total Length: 5-3/16" (13.2 cm)
Cat. No. 8605



Hex & Special Tip Tool

Material: Delrin, Hex 0.100"
Ends: Flat screwdriver tip (0.027" thick—0.095" wide), followed by 0.100" hex; 0.100" hex, 7/32" long, undercut shaft to reach bottom slugs in coils
Total Length: 5-3/32" (12.9 cm)
Cat. No. 8606

N.S.N. 5120-00-288-7786



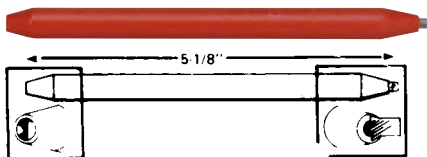
"Hex & Special Tip Tool, Long"

Material: Delrin, Hex 0.100"
Ends: Flat screwdriver tip (0.027" thick—0.095" wide), followed by 0.100" hex; 0.100" hex, 7/32" long, undercut shaft to reach bottom slugs in coils
Total Length: 11-3/32" (28.2 cm)
Cat. No. 8606-L



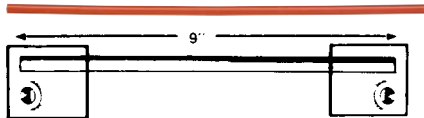
Miniature Potentiometer-Trim Adjustment Tool

Material: Nylon
Shaft: 1/4" (6.3 mm) dia. 4-15/16" (12.5 cm) long
Ends: .085" (2.2 mm) wide steel tip; .085" (2.2 mm) wide steel tip, recessed .040"
Total Length: 4-15/16" (12.5 cm)
Cat. No. 8608



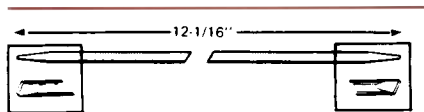
Alignment Tool

Material: Tenite
Shaft: 3/8" (9.5 mm) dia., 5" (12.7 cm) long
Ends: 1/8" (3.2 mm) dia. steel tip, recessed 1/16". Fits no. 4 slotted stud
Total Length: 5-1/8" (13 cm)
Cat. No. 8609
 N.S.N. 5120-00-227-7291



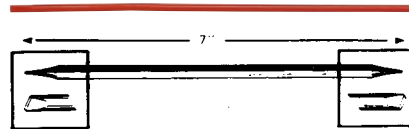
TV 2-in-1 Long Reach Duplex Aligner

Material: Butyrate
Shaft: 7/32" (5.5 mm) dia., 9" (22.9 cm) long
Ends: 1/8" (3.2 mm) wide steel tip, recessed 1/16". Fits no. 4 slotted stud; 1/8" (3.2 mm) wide steel tip, recessed 1/16". Fits no. 6 slotted stud
Total Length: 9" (22.9 cm)
Cat. No. 8721



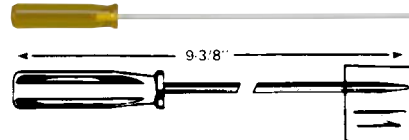
Long Reach Alignment Stick

Material: Fiberglass
Shaft: 1/8" (3.2 mm) dia., 12-1/16" (30.6 cm) long
Ends: 1/32" thick screwdriver tip (Both Ends)
Total Length: 12-1/16" (30.6 cm)
Cat. No. 8728
 N.S.N. 5120-00-965-9549
 same as above, except 16-1/16"
Cat. No. 8729



Double Ended Alignment Stick

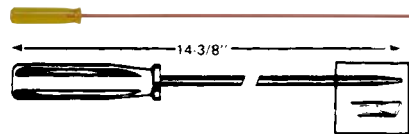
Material: Delrin
Shaft: 1/8" (3.2 mm) dia., 7" (17.7 cm) long
Ends: 1/32" thick screwdriver tip (Both Ends)
Total Length: 7" (17.7 cm)
Cat. No. 8728-A



Screwdriver with Plastic Handle

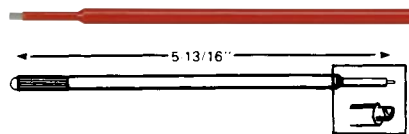
Material: Fiberglass
Shaft: 1/8" (3.2 mm) dia., 7" (17.7 cm) long
Ends: 1/32" thick screwdriver tip; 2-3/8" (6 cm) long screwdriver handle
Total Length: 9-3/8" (23.8 cm)
Cat. No. 8987

N.S.N. 5120-00-134-4958
 N.S.N. 5120-00-542-2936



Long Reach Screwdriver with Plastic Handle

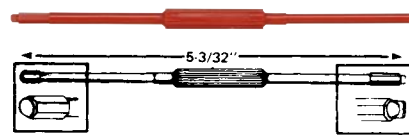
Material: Fiberglass
Shaft: 1/8" (3.2 mm) dia., 12" (30.5 cm) long
Ends: 1/32" thick screwdriver tip; 2-3/8" (6 cm) long screwdriver handle
Total Length: 14-3/8" (36.5 cm)
Cat. No. 8988



Thin End Steel Tip Tool

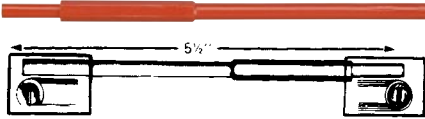
Material: Butyrate
Shaft: 7/32" (5.5 mm) dia., 3/4" recessed end
Ends: 1/8" wide steel tip
Total Length: 5-13/16" (14.8 cm)
Cat. No. 9089

N.S.N. 5120-00-043-3110
 N.S.N. 6625-00-689-7689



Double Sided Hex End Tool

Material: Delrin, Hex: 1/8" (0.125")
Ends: 7/32" long hex; 3/8" long hex and small screwdriver tip, 0.100" wide, 0.020" thick
Total Length: 5-3/32" (12.9 cm)
Cat. No. 9091

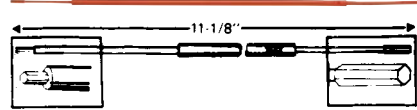


TV Alignment Tool

Material: Nylon
Shaft: Long end 7/32" (5.5 mm) dia., 3" (7.6 cm) long; short end 3/16" (4.8 mm) dia., 3/4" (1.9 cm) long
Ends: 1/8" (3.2 mm) wide steel tip, recessed 1/16". Fits No. 6 slotted stud; 5/32" (4 mm) dia. slotted tip, recessed 3/64"
Total Length: 5-1/2" (14 cm)

Cat. No. 9150

N.S.N. 5120-00-410-5989

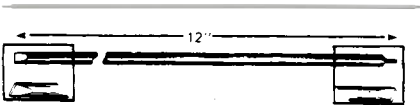


Hex Tool

Material: Delrin, Hex 5/64" (0.078")
Ends: 1/4" long hex, 0.096" dia. shaft; 3/8" long hex, undercut (0.068" dia.) shaft to reach bottom slugs in coils
Total Length: 11-1/8" (28.3 cm)

Cat. No. 9297

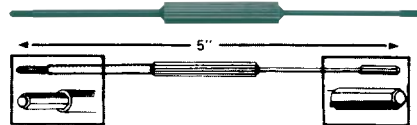
N.S.N. 5120-00-932-7764



Double Ended Long Screwdriver

Material: Fiberglass
Shaft: 5/32" (4 mm) dia., 12" (30.5 cm) long
Ends: 1/32" thick screwdriver tip (Both Ends)
Total Length: 12" (30.5 cm)

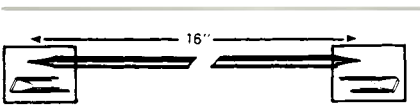
Cat. No. 9293



Double Sided Hex End Tool

Material: Delrin, Hex 5/64" (0.078")
Ends: 1/4" long hex, 0.096" dia. shaft; 3/8" long hex, undercut (0.068" dia.) shaft to reach bottom slugs in coils
Total Length: 5" (12.7 cm)

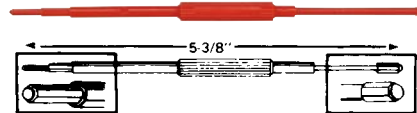
Cat. No. 9300



Double Ended Extra Long Screwdriver

Material: Fiberglass
Shaft: 5/32" (4 mm) dia., 16" (40.6 cm) long
Ends: 1/32" thick screwdriver tip (Both Ends)
Total Length: 16" (40.6 cm)

Cat. No. 9294

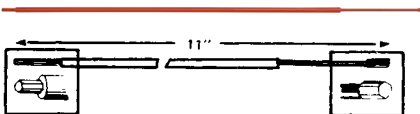


3-in-1 Hex Core Tool

Material: Delrin, Hex 5/64" (0.078")
Ends: Small (0.078") hex followed by 0.100" hex; 0.100" hex (3/8" long), undercut shaft to reach bottom slugs in coils
Total Length: 5-3/8" (13.7 cm)

Cat. No. 9302

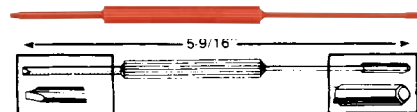
N.S.N. 5120-00-089-8216



Double Ended Long Hex Tool

Material: Delrin, Hex 0.100"
Ends: 3/8" long hex; 1/4" long hex, undercut (0.090" dia.) shaft to reach bottom slugs in coils
Total Length: 11" (27.9 cm)

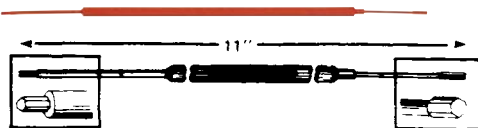
Cat. No. 9295



Hex Screwdriver Combination

Material: Delrin, Hex 5/64" (0.078")
Ends: Screwdriver (plastic), 0.110" blade; 3/8" long hex, undercut (0.068" dia.) shaft to reach bottom slugs in coils
Total Length: 5-9/16" (14.1 cm)

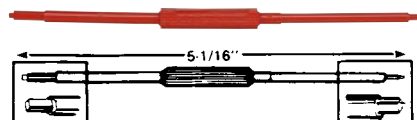
Cat. No. 9304



Double Sided Hex End Tool

Material: Delrin, Hex 5/64" (.078")
Ends: 1/4" long hex, 0.096" dia. shaft; 3/8" long hex, undercut (0.068" dia.) shaft to reach bottom slugs in coils
Total Length: 11" (27.9 cm)

Cat. No. 9296



Square & Hex End Tool

Material: Delrin, Hex 0.100"
Ends: 0.100" (2.5 mm) hex, 3/8" (9.5 mm) long; 1/16" (0.062"-1.6 mm) square, 1/32" (0.1 cm) long
Total Length: 5-1/16" (12.8 cm)

Cat. No. 9440

N.S.N. 5120-00-990-1378

**STATIC DISSIPATIVE
TWEEZERS**



Static Dissipative Tweezers
Tweezers are made of non-magnetic acid resistant plastic that will dissipate static.

4-1/2" Straight, Flat, Rounded Tips

Cat. No. 12-9511

4-1/2" Curved, Rounded Tips

Cat. No. 12-9514

4-1/2" Very Fine Straight Tips

Cat. No. 12-9517

4-1/2" Very Fine Angular Tips

Cat. No. 12-9520

4-1/2" Very Fine Curved Tips

Cat. No. 12-9523

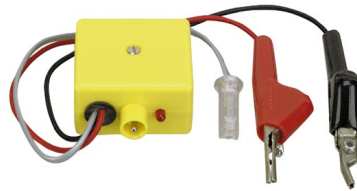
4-1/2" Straight, Flat Tips

Cat. No. 12-9526

4-1/2" Straight, Broad Flat Tips

Cat. No. 12-9529

TEST AND MEASUREMENT



Tone Test Set

Features:

- 1000 Hz or 500/1000 alternative tone for tracing pairs.
- Locates broken pairs/cables in walls.
- Tone generator emits R.F. signal up to 5000 ft. Detectable by 12-5706 station man probe.
- Provides talk power on a dead pair.
- Checks for shorts or opens, using a long-life light-emitting diode, (LED).
- Continuity test.
- Tip and ring identifications.
- Line condition identification: A. Clear line, B. Busy line, C. Ringing line.
- Positive line verification.
- Long battery life.
- Nylon braided tinsel test lead wire for greater wear and flexibility.
- Heavy duty nickel silver "6A" type alligator clips.
- Heavy duty boots made especially for the "6A" type alligator clip.
- Rubber grommet to prevent chafing on the test leads.

Specifications:

Integrated circuit

Dual tone capability: A. 1000 Hz continuous tone, B. 500/1000 Hz alternating tone

Power source 9 volt battery: 216 Everready, VS323 RCA, 006P import or equivalent.

Sold Separately

Weight: 3-1/2 oz. Leather carrying case 3 oz. Heavy duty ABS case

Cat. No. 12-5705



Stationman Probe

New locking and non-locking switch which is field adjustable. The test probe is supplied with a cone-shaped tip and a duckbill tip that is longer and flatter, permitting insertion into larger cables, or cables under tension where slack cannot be obtained.

Features:

- Leads of Lineman's Test Set are clipped to the "ears" of the Probe, automatically energizing the Probe.
- High input impedance to permit capacitive coupling with pair carrying the test signal.
- Output impedance is low to match the impedance of the telephone handset.
- Quickly and easily locates the proper cable pair containing the tone signal.
- An audible speaker so that the speaker probe may be used with or without a Lineman's Test Set.

Cat. No. 12-5706



Capacitance Substitution Unit

Excellent for circuit development—easy to use. Simply place wires in unit and adjust switches to determine capacitor value. Dual contact slide switches allow simple adding or subtracting to the value desired. Rugged, sturdy design. 5-1/2" x 3-1/2" x 15/16".

Specifications:

Range: 100pF to 4.7 mFd

Precision: 10% capacitors throughout

Voltage: 200 Volt DC, non-polarized

Residual Capacitance: 100pF internal; 100pF to ground

Terminals: Push Type

Cat. No. 12-102



Resistance Wheel

Helps select resistors for any circuit. Color-coded insulated alligator clips attach easily to circuit and easily readable dial, then indicates resistor value when rotated. 1/4 watt, 5% resistor values (5 Ω1M), 100 V max.

Cat. No. 12-104



Continuity Tester

Clip lead to circuit and use needle point to test. Light "on" indicates circuit continuity. Light "off" indicates fault in circuit. 42" lead with alligator clip for ground connections. Large red lens. Requires 2 "AA" batteries (not included).

Cat. No. 12-105



Sub-Miniature I.C. Test Clips

Insulated to single contact point to assure accurate readings. Test wire may be soldered directly to test clip. Clips to wires and posts up to .030" diameter. 5/32" travel.

Voltage Rating: 500V AC/DC
Insulation Resistance: 1000M

Pkg. 1 Red and 1 Black

Cat. No. 12-1640



Medium Duty Unbreakable Test Leads

Specifications:
Construction: One piece molded
Tips: Phone tips both ends
Wire: 30" ultra-flexible.
Pair of 1 each, Red and Black
Cat. No. 12-1647



Heavy Duty Test Leads

Specifications:
Handle: Molded plastic
Tip: Phone tips to banana plugs
Wire: 35" leads 25 ga. (20 X 38)
Description: Pair of 1 each, Red and Black

Cat. No. 12-1656



Resistance Decade Box

For The Design Engineer, Service Technician, Experimenter All Resistors $\pm 1\%$ At 1/2 Watt. A helpful aid to help determine the best value of a resistor needed in experimental circuits. Values may be changed instantly in one ohm increments by setting switches.

Specifications:
Size: 3-5/8" W x 6" L x 2-1/8" H
Weight: 12-1/2 ounces
Case: ABS hi-impact & aluminum
Power Capacity: 1/2 Watt
Accuracy: $\pm 1\%$ tolerance minimum
Range: From 1 Ohm to 11,111,110 Ohms in 1 Ohm increments

Cat. No. 12-109



Miniature I.C. Test Clips

Quick, easy miniature test connections. Ideal for today's I.C. circuitry. Adapts to standard size pin plug. Connections from the finest transistor lead up to No. 16 wire. Clips to side of P.C. board for ground connections. Copper conductor-nylon insulator. 1/8" travel.

Voltage Breakdown: 1500V AC
1 minute
Insulation Resistance: 500V DC
100M or more.

Pkg. 1 Red and 1 Black

Cat. No. 12-1642



Medium Duty Unbreakable Test Leads

Specifications:
Construction: One piece molded
Tips: Phone tips to banana plugs
Wire: 30" ultra-flexible
Rated: 300 volts
Cat. No. 12-1648



Test Light

Popular tester has 5" insulated leads with tip prods for safe and easy testing of both AC and DC circuits (80 volts AC to 500 volts AC or DC). Excellent for tracing all types of trouble, such as grounded lines, open circuits, short circuits.

Cat. No. 5101



"Jumper" Wire Test Leads

Handy test leads with insulated alligator clips attached to ends. Ideal for breadboarding, experiments, temporary hookups, numerous applications. Package contains black, red, white, green and yellow jumpers.

27 AWG, 2 each, 15" long thin leads with miniature clips, 10 jumpers
Cat. No. 12-1650

21 AWG, Heavy Duty Leads, 1 each, 22" long leads with standard size clips, 5 jumpers
Cat. No. 12-1655



Lo-Volt Test Lights

For checking circuits from 5 to 50 volts. Tests batteries, generators, thermostats, tube filaments and other electrical items which operate on low voltage, AC or DC.

Tester w/test prods—5" Leads
Cat. No. 5105

Tester w/alligator clips—8" Leads
Cat. No. 5110



Hi-Voltage Testing Screwdriver

A combination screwdriver and electrical tester that checks AC voltages from 100 to 500 volts. Pocket sized, only 9/16" O.D. and 5-5/16" long. Simple to use in tracing all types of trouble such as grounded lines, open or short circuits.

Cat. No. 5120



GC Automotive Electrical Tester

The GC pocket sized Automotive Electrical Tester is utilized to locate "hot" leads in automotive electrical systems. Sharp tip of tool pierces insulation. Much handier than toting around a meter. Supplied with an 18" lead wire equipped with an alligator clip on one end and banana type plug on the opposite. Versatile, portable, reliable. Clear handle. Tool length 5-3/16".

Cat. No. 5128



6" Stainless Steel Flexible Rule

6" Stainless Steel Flexible Rule with etched graduations in 32nds and 64ths. 15/32" wide. Decimal equivalents etched on back. Furnished with pocket clip.

Cat. No. 12-1716

CRAFT TOOLS



17 Pc. Precision Knife Set

A kit of three knife handles with commonly used blades plus an assortment of ten extra blades. This kit is useful in PC artwork, lab use for cutting cambric, etc. Supplied in wooden case with magnetic spare-blade holder in lid.

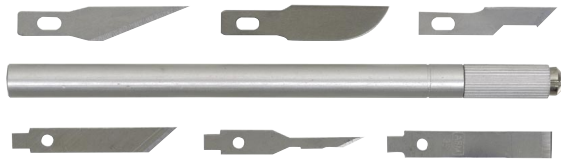
Cat. No. 12-007



Miniature Scissors

Extra fine, 4-1/2" overall scissor for fine work. Excellent for shaping printed circuit patterns, trimming fine wires etc. An asset for today's prototype builder. A very handy P.C. graphic art tool.

Cat. No. 12-280



Technician's Knife with 6 Blades

Includes flat, curved, angled, and pointed razor blades. Useful for etching, scribing and scraping PC boards, contacts and micro components. Ideal for precision cutting or trimming of PC artwork, stencils, layouts, and pasteups. Solid aluminum handle with easy-grip, tension adjustment. Packaged in convenient storage tray.

Cat. No. 12-008



Lab Scissors

Medium weight, 5-1/2". Excellent tool for trimming fine leads, copper foils, etc. Heavy enough to be used for shaping cambric, lighter weight fish papers, etc. Belongs in all electronics labs.

Cat. No. 12-284



23-Piece Standard Hobby/Craft Tool Set

Contains three knives, block sander, spoke shave, block plane, balsa stripper, two routers, four gouges, and nine assorted blades. Complete with convenient storage tray in attractive plastic chest.

Cat. No. 12-009



Electronic Assembly Tweezers

6-1/2" Long-Self Closing, Blunt Points, serrated

Cat. No. 7946

6-1/2" Long-Slide Lock, Smooth Points

Cat. No. 7947

4-1/2" Long-Fine Points

Cat. No. 7948

N.S.N. 5120-00-784-2890



Tweezer Kit

For the shop or laboratory, to pick up small parts, start screws, to get into hard-to-reach places, fastening springs—numerous uses.

Kit contains:

- Self-Closing, Blunt Point Tweezer
- Slide-Locking, Smooth Point Tweezer
- Sharp Point Tweezer.

6" Long-Straight Jaw

Cat. No. 7950

N.S.N. 5120-00-920-8420



Scissor Tweezers

Versatile, general purpose soldering tool. Excellent clamp-type heat sink for soldering diodes and transistors. Available in straight or curved jaw type. Made of the finest stainless steel.

5" Long-Straight Jaw

Cat. No. 7976

6" Long-Straight Jaw

Cat. No. 7977

5" Long-Curved Jaw

Cat. No. 7978

6" Long-Curved Jaw

Cat. No. 7979



Precision Quality Tweezers

For electronic and fine assembly work where non-contamination is essential. Stainless steel.

4-5/8" Long-Beveled Points

Cat. No. 7992

4-1/8" Long-Fine Points

Cat. No. 7993

4-1/4" Long-Extra Fine Points

Cat. No. 7994

4-1/2" Long-Curved Points

Cat. No. 7995



Dental Probes

Stainless steel probes that have been popular for a long time are now even more valued as soldering/desoldering aids in SMD assemblies. Stainless is non-contaminating, static-free and will not solder. Needle point tips permit exact placement. Hex handles prevent rolling, allows better grip.

5-1/2" Probe-Straight

Cat. No. 12-2260

5-1/2" Probe-Hooked

Cat. No. 12-2264

5-1/2" Probe-Curved

Cat. No. 12-2266

Set of all 3 Probes

Cat. No. 12-2270

SOLDER AND SOLDERING IRONS



60/40 Rosin Core Solder

Comes in economy 1/2-lb. and 1-lb. rolls for heavy solder users. 60% tin/40% lead with quick-wetting rosin core to help assure perfect solder connections. Meets Federal Specification Q9-5-571E.

Cat No.	Gauge	Dia.	Spool Size	Tin/Lead%
6033	20	.032"	1/2 lb.	60/40
6039	16	.047"	1/2 lb.	60/40
6044	14	.062"	1/2 lb.	60/40
6034	20	.032"	1 lb.	60/40
6040	16	.047"	1 lb.	60/40
6045	14	.062"	1 lb.	60/40



Low-Melt Solder

63/37 (Eutectic) Rosin Core

Low-melt Solder is the best blend of tin/lead for melting at the lowest (361°F) possible temperature. Low-melt solder reduces the probability of heat-damaged components, lifted circuit traces, etc. by reducing soldering time as well as temperature. Bonds more quickly and securely to copper or silver. Organic Resin Core, fine wire solder on spools. Exceeds Fed. Spec. QQ-S-571E.

Cat No.	Dia.	Spool Size	Tin/Lead%
6035	.032"	1/2 lb.	63/37
6037	.032"	1 lb.	63/37



Silver Bearing Solder

60/38/2 Rosin Core

Reduces leaching of silver, gold, etc. from contacts and edge connectors. An excellent high-strength solder that may be used safely in all electronic circuits. Exceeds Fed. Spec. QQ-S-571E.

.032" Dia, 1/2 lb., 60/38/2 Tin/Lead%

Cat. No. 6056

.032" Dia, 1 lb., 60/38/2 Tin/Lead%

Cat. No. 6059



Fine Line Solder

Specially designed for today's PC needs. Thin, neat—rapid melting 60/40 rosin core type, .032" 20 ga. diameter. Convenient, clear plastic, self-feed dispenser contains 12 feet of solder.

Cat. No. 9132

Carded

Cat. No. H3-391



Standard Solder

60/40 rosin core in popular 0.050" 16 ga. diameter. Convenient, clear plastic, self-feed dispenser contains 6-12 feet of solder.

Cat. No. 9134

Carded

Cat. No. H3-390



Solder/Braid

The Perfect Pair

1 spool of .031" 20 ft. 60/40 rosin core solder and 1 spool of size 3 (.075") GC braid. Spools snap together for convenience.

Cat. No. 12-5001



GC Braid

5 ft. Spools

Cat No.	Width	Color
12-5025	.025"	Silver
12-5050	.050"	Gold
12-5075	.075"	Green
12-5100	.100"	Blue
12-5125	.125"	Brown



GC Braid

25 ft. Spools

Cat No.	Width	Color
12-6025	.025"	Silver
12-6050	.050"	Gold
12-6075	.075"	Green
12-6100	.100"	Blue
12-6125	.125"	Brown



GC Solder

25 ft. Spools

Cat No.	Width
12-5380	.020" x 25'
12-5391	.031" X 20'

SOLDER TOOLS



Soldering Kit

Ideal for technicians and kit builders. Contains 30 watt soldering iron, 60/40 rosin core solder, stainless steel solder aid tool and heat sink for semi-conductor soldering. Tool has forked end for wrapping or removing wires from terminals. Other end has a metal brush for removing solder from P.C. boards or terminals.

Cat. No. 12-031



30 Watt Soldering Iron

A handy lightweight soldering iron complete with a hot tip iron rest. 117V AC. Complete with replaceable solder tip.

Cat. No. 12-055

Replacement Solder Tip

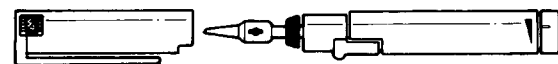
Cat. No. 12-056



PSI-100

- Self-igniting portable gas soldering heat tool.
- Solders, heat shrinks, cuts nylon rope.
- Rugged stainless steel body.
- Temperature adjustable up to 1,076 °F.
- Uses standard butane fuel.
- Runs for up to two hours on a single butane refill.
- Ten professional-quality, iron-plated tips available.

Cat. No. PSI-100



Portasol® Model P-1

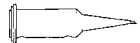


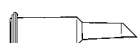




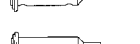

This is the state of the art in pocketable butane soldering tools. The Model P-1 offers totally portable operation, permitting an average 90 minutes of soldering from one refill. A variety of soldering and special purpose tips makes this the most flexible system of its type.

Mail Order Packed



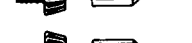
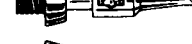



Cat. No. P-1-B

PORTABLE SOLDER IRONS

Weller Portasol® Ten Professional-Quality, Iron-plated Tips

-  1.0 mm (1/32" single flat) soldering tip - temperature range up to 450 C (850 F).
Cat. No. PSI 1
-  2.4 mm (3/32" single flat) soldering tip - temperature range up to 450 C (850 F).
Cat. No. PSI 2
-  3.2 mm (1/8" single flat) soldering tip - temperature range up to 450 C (850 F).
Cat. No. PSI 3
-  4.8 mm (3/16" single flat) soldering tip - temperature range up to 450 C (850 F).
Cat. No. PSI 4
-  1.0 mm (1/32" double flat) soldering tip - temperature range up to 450 C (850 F).
Cat. No. PSI 5
-  2.4 mm (3/32" double flat) soldering tip - temperature range up to 450 C (850 F).
Cat. No. PSI 6
-  3.2 mm (1/8" double flat) soldering tip - temperature range up to 450 C (850 F).
Cat. No. PSI 7
-  4.8 mm (3/16" double flat) soldering tip - temperature range up to 450 C (850 F).
Cat. No. PSI 8
-  Hot blower tip - temperature range up to 450 C (850 F).
Cat. No. PSI 9
-  Hot knife tip - temperature range up to 450 C (850 F).
Cat. No. PSI 10

Replacement Portasol® Tips

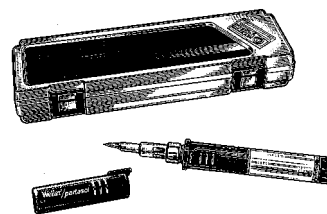
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- Replacement Portasol Tips for the new Model P-1B and the Professional. A range of soldering and special purpose tips for both lab and field needs. Soldering tips range from 1.0 mm to broad at 4.8 mm wide. The Hot Blow Tip converts the Portasol into a miniature heat-gun for shrink tubing, softening plastics, etc. The blow-torch tip operates at 2300°F (2372° peak) for melting metals or heavy soldering jobs.

- 1.0 mm Solder Tip
Cat. No. T-1
- 2.4 mm Solder Tip
Cat. No. T-2
- 3.2 mm Solder Tip
Cat. No. T-3
- 4.8 mm Solder Tip
Cat. No. T-4
- Blow Torch Tip
Cat. No. T-5
- Hot Blow Tip
Cat. No. T-6
- Hot Knife Tip
Cat. No. T-7

Butane Gas

A premium grade butane for use in the Portasol soldering iron, Portasol professional and all other similar tools that require butane fuel. This is a quality butane that contains no contaminants and will not clog valves or deactivate catalytic conversion material.

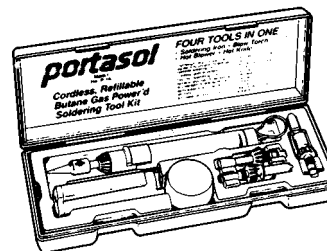
- 3 fl. oz. Aerosol
Cat. No. 12-133



PSI-100K

Kit includes PSI-100 soldering tool, PSI 6 (2.4 mm) double flat tip, PSI 9 hot blower, PSI 8 (4.8 mm) double flat tip, PSI 10 hot knife, cleaning sponge, and rugged storage case. Fuel not included.

- Cat. No. PSI-100K**



Model P-1K Portasol® Soldering Tool Kit

Pocket-size butane soldering iron, blow torch and miniature heat gun. In addition to soldering, interchangeable tips add a hot-blow (i.e., heat gun) for shrink tubing, a blow-torch for heavy duty soldering. A hot knife tip is included for cutting plastics, cutting and cauterizing nylon rope, etc. May be used for all

electronic soldering, both assembly and repair. One filling of butane fuel allows an average of 90 minutes soldering time. The Portasol iron is 7" long and 3/4" in diameter. The kit measures 3"W x 9"L x 13/16"D.

- Kit contains:
- Portasol Model P-1 Soldering Tool
- 2.4 mm Standard Soldering Tip
- Hot Blow Tip (heat gun)
- Blow-Torch Tip
- Tip Cleaning Sponge
- Wire Hot-Iron Stand
- Plastic Storage Case
- Mail Order Packed
Cat. No. P-1K-B

SOLDER PRODUCTION TOOLS



Solder Aid Kit

Seven tools provide complete solder maintenance capabilities to technicians, hobbyists, and electronics designers. Spring-loaded "extra fingers" clamp onto hot wires, while sharp-angled scraping tool cleans away excess solder with ease and accuracy. Hard to reach wires are quickly tamed with versatile wire clip. Smooth out solder beads with handy brush and detail tiny circuitry with 30° angled soldering prong. Kit contains the right tools for every job.

Cat. No. 9065



Reamer & Scraper Tip

Reamer and scraper tips for scraping joints or reaming out lug holes.

6-1/2" Long, Plastic Handle

Cat. No. 9069



Brush & Forked Tip

Brush on one end, forked tip on the other is for twisting or holding wires.

6-1/2" Long, Plastic Handle

Cat. No. 9073



Brush & Scraper Kit

Brush on one end for dusting away excess solder chips, and scraper tip for scraping joints.

6-1/2" Long, Plastic Handle

Cat. No. 9074

5-3/4" Long, Wood Handle

Cat. No. 9474



Straight Reamer & Forked Tip

Made from stainless steel, solder will not stick to it. Forked tip on one end, straight reamer on the other.

6-1/2" Long, Plastic Handle

Cat. No. 9075

5-3/4" Long, Wood Handle

Cat. No. 9475



Heavy-Duty Brush & Forked Tip

One end stiff wire brush for cleaning off solder terminals. Other end is machined to help in unsoldering wires which are wrapped around terminals and lugs, and for holding wires.

8" Long, Plastic Handle

Cat. No. 9088

N.S.N. 5120-00-611-7136

N.S.N. 3439-00-611-7136

7-1/2" Long, Wood Handle

Cat. No. 9488



Angle Reamer & Forked Tip

Handy, fine point probe specially designed to aid in probing and soldering printed circuits. Made with special stainless steel hardened probes, solder will not stick to tool.

8" Long, Plastic Handle

Cat. No. 9093

N.S.N. 3439-00-800-7989

7-1/2" Long, Wood Handle

Cat. No. 9493



Brush & Scraper Kit

Fine stainless steel brush and hardened steel scraper.

8" Long, Plastic Handle

Cat. No. 9094

N.S.N. 5120-00-767-9125

7-1/2" Long, Wood Handle

Cat. No. 9494



Angle Reamer & Forked Tip

Heat treated tool steel prevents solder from sticking to tool. Forked tip for twisting or holding wires, angled reamer on the other end.

6-1/2" Long, Plastic Handle

Cat. No. 9076

N.S.N. 3439-00-330-5075

5-3/4" Long, Wood Handle

Cat. No. 9476



Straight Reamer & Forked Tip

Straight reamer for cleaning out lug holes, forked tip is ideal for twisting or holding wires. Both tips are stainless steel to prevent solder from sticking to tool.

Cat. No. 9086

7-1/2" Long, Wood Handle

Cat. No. 9486



Anti-Static Solder Removal Tool

A standard size (7-3/4" overall length) solder removal tool with a relatively large vacuum chamber that provides a greater solder pulling action than most designs. Dual "O" rings enhance the greater pulling power. Conductive tip insures ESD free operation when used by a grounded operator.

Solder Remover

Cat. No. 12-2105

Replacement "O" Rings

Cat. No. 12-2106

Replacement Tips

Cat. No. 12-2107



Anti-Static 8-28 Pin IC Extractor Tool

Anti-static extraction tool offers unique patented design that holds the IC being extracted without slipping.

Cat. No. 12-4126



Solder Popper® 3-Wire Grounded

Combines the popular snap-vacuum solder removal tool with a 30 watt soldering iron for fast, one-hand operation and is an excellent tool for field repair or production work. Tightly sealed vacuum pump snaps-up all of the solder quickly. A removable reservoir stores solder and features a long life tip that unscrews for easy replacement.

Solder Popper

Cat. No. 12-2157

Replacement Tip

Cat. No. 12-2160

Replacement "O" Ring Seal

Cat. No. 12-2161



Anti-Static 8-28 Pin IC Extractor/Inserter Kit

Anti-static tools offer patented features to extract, insert, or hold an IC to be worked on. This kit contains one 8-28 pin extractor and one 8-28 pin inserter.

Cat. No. 12-4127



Anti-Static I.C. Insertion Tools

Insertion tools for all popular DIP I.C.'s. Narrow design permits insertion on crowded boards. Tools are molded of a tough plastic and plated with a metallic (conductive) coating to prevent ESD problems when used in conjunction with a wrist strap. Handles have pin straightener molded in for respective I.C.'s.

14-16 Pin

Cat. No. 12-4116

24-28 Pin

Cat. No. 12-4128

36-40 Pin

Cat. No. 12-4140



H3-388



9077-1

Heat Sink

Protect heat-sensitive components, such as semi-conductors, from heat damage while soldering or desoldering. The H3-388 will absorb maximum heat. The thin 9077-25/9077-1 will fit short leads such as transistors mounted close to PC board.

Pkg. of 2

Cat. No. H3-388

Heat Sink

Cat. No. 9077-1

Order 25 Display Card

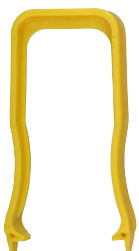
Cat. No. 9077-25



28-40 Pin Grounded DIP I.C. Extractor

By simply placing the tool on the socket and depressing the plunger one has instant and accurate extraction. Conductive finish with ground strap connection point.

Cat. No. 12-4612



Anti-Static 8-28 Pin IC Inserter Tool

Anti-static insertion tool offers unique patented design that places the IC into position.

Cat. No. 12-4125

SPECIALTY TOOLS



Long Reach Fluorescent Magnifying Work Lamp

An excellent lamp for PC repair or rework or other assemblies requiring magnification. A 22 watt circular fluorescent bulb supplies even, shadow-free light for a center-mounted magnifying (3-diopter) lens. Lamp arms reach up to 45". This lamp is UL Listed and well made for many years of use. 5 ft. cord.

Cat. No. 22-423

Replacement Bulb
Cat. No. 22-425

Replacement Switch
Cat. No. 22-427



Illuminated Inspection & Service Mirrors

Hinge mounted mirror fastened to a 6" transparent lucite rod, which transmits light from a small anodized, aluminum flash-light. Locking switch for easy on-off, one hand operation. Furnished with bulb. Insulated shaft. Overall length: 12-1/4", mirror dia.: hard quad 7/8"; frame O.D.: 1 1/16".

Cat. No. 8725

N.S.N. 6230-00-066-1262



Inspection Mirror

7-1/2" long mirror. Metal shaft and plastic handle.

Cat. No. 5090

N.S.N. 5120-00-620-9233

7-7/8" long all plastic insulated mirror. No danger of shock or shorting.

Cat. No. 5090-P

N.S.N. 5120-00-159-8180



Miniature Inspection Mirror

Only 4-1/8" long. The mirror surface is 3/4" diameter. Stem and frame are non-conductive plastic.

Cat. No. 5093



Extra Hands with Magnifier

Two alligator spring clamps and double ball joints hold work at any angle. Third clamp holds 2" magnifying lens for doubling size of hard to read part numbers and verifying repair accuracy. Spring clip holds objects at any angle leaving both hands free to glue, solder, repair or assemble with ease. Heavy cast-iron metal base provides stable error-free assistance.

Cat. No. 12-053



Double Hand Holder

Six ball joints permit movement to the exact angle required for hands-free operation. Tightened (locked in place) by thumb screw. Alligator clips, adjustable to any position, holds small shapes securely. Heavy base prevents tipping. May be used in vise or clamped to work-bench.

Cat. No. 12-051



Miniature Vacuum Vise

Attaches instantly to smooth, nonporous surfaces. Side lever controls powerful suction cup base. Completely portable but can be permanently mounted—mounting holes provided on base. 1-1/2" jaws open to 1-3/4". Ideal for quick, changeable setups involving small precision parts and microelectronic accessories. 2-5/8"H x 2-1/4"W x 2-1/4"D. Durable molded plastic.

Cat. No. 41-616



Swivel Vacuum Vise Heavy Duty

Attaches quickly to any smooth, nonporous surface. Vise tilts up to 180° vertically—swivels a full 360° horizontally. Rugged casting with 3" wide, metal, V-groove jaws which open to 2-5/8". Versatility makes it useful in the shop or lab and for light production work. Base size: 6-1/4". Hammertone finish.

Cat. No. 12-061



Screw Holding Screwdriver

One of the handiest tools in any shop or toolbox. Holds and starts screws from No. 2 thru No. 10.

Cat. No. 12-042



Snap Lock Screw Starter

Double ended Screw Starter for Phillips and standard slotted screws. Cam action holds screws straight and firm. For most screw sizes normally used in electronic work up to 1/4". Overall length 9" for tough to reach places.

Cat. No. 12-047



Metric Hex Wrench Kit

Kit of the 9 most popular size metric hex wrenches: 0.9 mm to 3.2 mm sizes. Made of specially tempered steel. Complete with plastic carrying pouch.

Cat. No. 5026

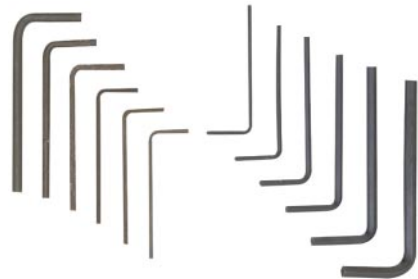


Spline Key Wrench Kit

Kit of 6 popular "Spline" type wrenches for use on many electronic devices. Made of alloy steel. Tools fit No. 4 to 1/4" set screws and No. 2 to No. 8 cap screws. Complete with handy carrying pouch.

Cat. No. 5070

N.S.N. 5120-00-585-6257

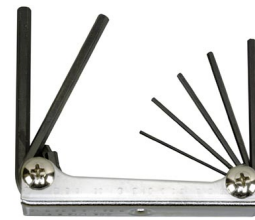


Hex & Spline Wrench Kit

A complete wrench kit for both hex and spline type screws used in the electronics field. Twelve wrenches in an attractive leatherette case. Will fit No. 2 to 3/8" screws.

Cat. No. 5028

N.S.N. 5120-00-585-6240



Pocket Hex Key Wrench Set

Wrenches open like pocket knife blades. Six popular size wrenches: 0.50" to 3/16", fitted in steel case. Made of the finest nickel chrome alloy steel.

Cat. No. 9124



Hexagon Key Wrench Kit

Kit of 5 key wrenches, essential for every repairman. Made of special alloy steel. Tools fit No. 4 to 1/4" set screws and No. 2 to No. 8 cap screws. Convenient leatherette carrying pouch.

Cat. No. 5029



Knurl-Nut Wrenches

Tightens or loosens knurled finish nuts. Collet-type pressure jaws provide positive vise-like grip. Reverse quarter turn loosens jaws and drops nut. 1/16" adjustment takes finish nuts of slightly less or greater size. Hollow collet barrel fits the long shank of many toggle switches.

Cat. No. 9358

N.S.N. 5120-00-88-4009

5/8" dia. Nut

Cat. No. 9359



GC 9338



Contact Burnishing Tools & Kits

GC burnishing tools—consist of stainless steel strips, micro-scored to an ultra-fine file surface. They remove oxide and corrosion on relay and switch contact points made of platinum, palladium, molybdenum, gold tungsten and silver. The standard tool is used on medium and large contact points whereas the fineline tool is recommended for use on small and miniature components.

0.120" wide Fineline tool.

Cat. No. 9337

Display of 24

Cat. No. 9337-24

.0250" standard width tool.

Cat. No. 9338

Display of 24

Cat. No. 9338-24



Taper Reamer

Indispensable for work on chassis or cabinet. Start with 1/8" or larger hole and enlarge to required size. Will also remove burrs. Tapers to 13/16".

Cat. No. 12-040



Pin Extractor Tools

Manufactured for clean and easy removal of male or female pins from nylon connectors, these tools are spring loaded and cause automatic collapse of the locking flanges before pushing the connector from the housing. This two-stage action assures a quick process without damage to the nylon housing or the pin connectors.

For .062" Pins

Cat. No. 12-650

For .093" Pins

Cat. No. 12-653



Spring Steel Extractor

An economical Spring Steel Extractor, one piece spring steel construction. It will fit all LSI, MSI, and SSI devices from 8 to 24 pins.

Cat. No. 12-4614



Professional High-Power Degaussing Coil

Eliminates magnetic fields in CRT TV picture tubes or computer monitors as required prior to purity adjustments. Safe to use. Coil is made to standard industry specifications and is completely encased in 13" dia. molded, high-impact plastic housing. Supplied with 8 ft. cord and momentary contact switch that permits de-energizing of coil without pulling plug. UL approved.

Cat. No. 9317

N.S.N. 5950-01-046-7345



Fyberoid "Fish Paper"

#560 Thin Insulated "Fish Paper". For numerous repair jobs around the shop where electrical insulation is required. Its qualities of toughness, flexibility, and edge-tearing resistance, combined with high dielectric strength, and ready absorption of insulating varnish, have led to its predominant use as an IMPROVED motor slot call insulation.

Characteristics and Uses:

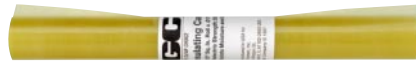
- **Flexibility:** Bends readily without fracturing in either direction of grain. The extraordinary flexibility makes it possible to form over and lay flat a 1/8" wide cuff along the edges of coils or strips.
- **Edge Tearing Resistance:** Highly resistant to tearing force at edges of material. Will resist tearing at the ends of cells under conditions destructive to ordinary insulation. It is recommended that it be cut with the grain running around the cell form, rather than lengthwise of the cell. When pieces are cut off and folded up into motor slot, the cuffed ends greatly increase the resistance to tearing.
- **Extreme Toughness:** Will stretch before tearing. The unique combination of this extreme toughness with flexibility enables it to be used successfully in many other difficult assemblies.

Specifications:

- **Size:** 10" wide
- **Description:** Vulcanized Cellulose Fiber
- **Color:** Blue-Grey
- **Thickness:** 0.010 inch ± 10%
- **Uses:** All electrical insulation
- **Tensile Strength:** MD 15,000 psi, (typical)
CD 6,000 psi, (typical)
- **Density:** 1.1 gram per cubic centimeter min.
- **Electrical Strength:** 300 Volts per mil (typical)
- **Bursting Strength:** (Mullen) 270 psi, (typical)
- **Tearing Strength:** MD 375 grams, (typical)
CD 450 grams, (typical)
- **Zinc Chloride Content:** 0.05% max.
- **UL 94 Flame Class:** 94HB UL File #E55656
- **Meets Mil. Spec. MIL-1-695A Type F.**

Rolled
Cat. No. 560

Flat
Cat. No. 560-BU



Insulating Cambric

Dry, yellow (polyester coated glass cloth) for transformers, chokes, resistors and motors. Needed to insulate parts and wires. 210 sq. inch roll. 9" wide-0.010" thick; Dielectric strength; 5000 volts. Rated at 180°C (356°F) with a 200 min. lbs/in. width tensile strength. High resistance to moisture and solvents. Meets MIL-1-17205C.

Cat. No. 549



Nibbling Tool

Cuts metal and non-brittle plastic. Will cut any size or shape contour, starting from the edge or from a 3/8" inside hole. The deluxe version is a spring operated nibbler which withdraws the punch from the metal, thereby speeds up the cutting. These tools cut steel up to 18 gauge (0.046") as well as copper, brass, aluminum and plastic up to 1/16" (0.062").

Deluxe Nibbler with Spring Operated Stripper
Cat. No. 806

Replacement Cutter for Nibbler Tool Cat. No. 805
Cat. No. 810



Push/Pull Tools

Spring Hooks

Combination push/pull/lifter tool for manipulating drive belts and springs into tight place. One end is a hook for pulling, the other an "S" for pushing.

- 5' Length
Cat. No. 12-2015
- 8' Length
Cat. No. 12-2018
- 11' Length
Cat. No. 12-2021



Duo-Tongs Universal Fuse Puller

Shock proof, molded nylon universal fuse pullers. Accommodates all kinds and types of fuses, including house-hold screw-in type and industrial cartridge fuses up to 3/4" or 100 amp type. Non-conductive, non-flammable and virtually unbreakable.

Cat. No. 9356

N.S.N. 5120-00-554-3372



Tube & Parts Extractor

Designed by the U.S. Military for all electronic service. Constructed of spring steel, nickel plated. Rubber cushioned prongs.

Cat. No. 5092

N.S.N. 5120-00-288-7680



Mini-Drill

Precision performance and features at an economical price. A versatile, portable drill suitable for most light drilling applications. Particularly designed with P.C. board work in mind, but capable of handling metal and plastic chassis boxes too. Operates as a portable on 4 "AA" batteries (not included) at 2500 RPM with a well-gear motor for high torque. An external power jack permits use with a 9 or 12V DC power supply. A power cord and connector are included. Also included with the drill are three collets that will accept bits up to .125" (.024 minimum), three popular bits (#32, #47, #53), a grinding wheel, collet wrenches and a hinged plastic storage box. A drill stand is available separately. For additional drill bits, see Nos. 12-275 and 12-276.

Cat. No. 12-107



Drill Stand

Designed specifically as a "drill-press" for No. 12-107 Mini-Drill. Particularly useful for P.C. work when accuracy really counts and many holes must be drilled. Drill simply snaps into stand and is equally easy to remove. Height adjustment for easy travel, spring-loaded return. Deep support arms allow for drilling P.C. boards up to 5-1/4" wide.

Cat. No. 12-117



Drill Bit Sets

For drilling component lead wire holes in phenolic and glass epoxy PC boards. Made of high speed tool steel for long life.

Set Contains:

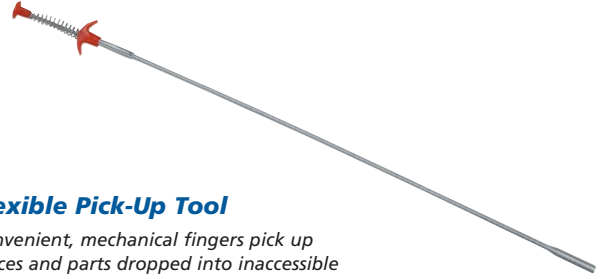
No. 66 Bit, .0330" Diam.; No. 60 Bit .0400" Diam.; No. 1/16 Bit, .0625" Diam.

Cat. No. 12-275

Set Contains:

No. 31 Bit .1200" Diam.; No. 27 Bit .1440" Diam.; No. 3/32 Bit .0938" Diam.

Cat. No. 12-276



Flexible Pick-Up Tool

Convenient, mechanical fingers pick up pieces and parts dropped into inaccessible places; holds to start screws, nuts and bolts.

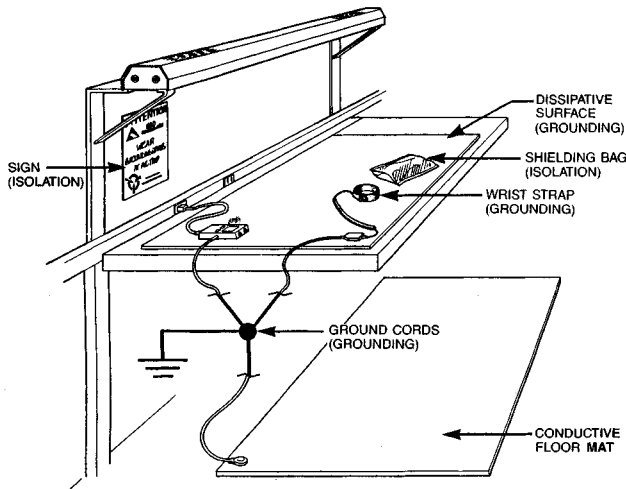
Long Reach 24" Tool

Cat. No. 5089

Miniature 5" Tool

Cat. No. 12-044

ESD/STATIC PROTECTION



GC professional has put together a line of high quality static control products that will help your customer establish an effective program to eliminate damage caused to electronic devices by electrostatic discharge (ESD). The need for the elimination of static in the electronics work place is being driven by international workmanship standards and the increased static sensitivity of today's smaller electronic devices. The use of the products outlined in this section will enable your customers to meet today's standards and lower their numbers of returns and repairs associated with ESD damage.

Applications for specific ESD products:

- **Wrist bands:** When properly grounded a wrist strap will eliminate static electricity an operator generates during normal activities.
- **Table mats:** When properly grounded will eliminate static electricity from items in the workstation area and items that are brought into the workstation area.
- **ESD bags:** Will protect electronic devices from static electricity during transportation and storage.
- **ESD floor mats:** When properly grounded can be used in conjunction with heel straps to eliminate static charges from an operator.
- **Heel straps:** Eliminate static charges from an operator when combined with a grounded ESD mat or flooring material. Can be used in conjunction with a wrist strap.
- **Wrist strap and foot strap testers:** Used to verify that ground cords, wrist straps and foot straps are functioning properly.
- **ESD tape:** Eliminates the large static charge generated by the use of conventional tape.
- **I.C. lotion:** Helps ensure a good contact with wrist straps and the skin without the risk of leaving residue on sensitive electronics.



GC Professional Adjustable Wrist Strap Kit

Elastic material: extra wide and soft for wearer comfort. Easy to replace without tools. Has silver impregnated nylon knitted on inside for superior conductivity.

Adjustable: may be fitted to any size. Once adjusted and locked, the material will not slip.

Unique patented adjustable design: eliminates exposed conductive "tail" – added safety.

Stainless steel stud: long lasting.
Nonallergenic stainless steel: no allergic reactions.No sloughing: safe for micro electronics.

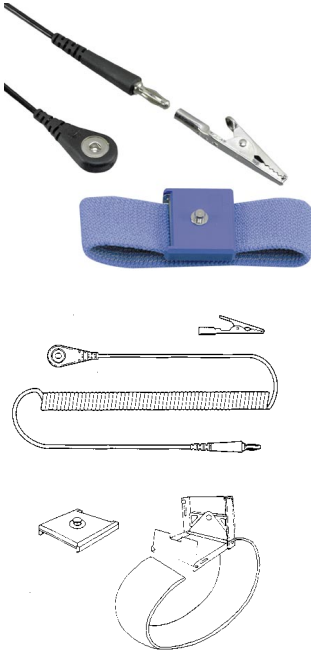
Complete kit includes:

10' coil cord, 4 mm snap stud and alligator clip

Cat. No. 12-8012

Wrist Strap Only

Cat. No. 12-8013



Adjustable Economy Wrist Strap Kit

Complete wrist strap kits include 6' coil cord with 4 mm snap stud and alligator clip.

Wrist Strap:

- Machined .160" (4 mm) stud, 300 series stainless steel. To fit 1/8" (4 mm) spring loaded medical snap socket.
- Easy to open plastic clasp secures elastic material in place, and allows the user to easily adjust the wrist band size. Maintains electrical continuity even when open.
- Non-allergenic stainless steel base plate, provides excellent skin contact, for superior grounding.
- Insulating cap, thermoplastic.
- Soft elastic band.

Ground Cord:

- Barrel type banana plug. Fits industry standard banana jack .166 in. (4.22 mm).
- Metallized, high flex tinsel, black jacket.
- One megohm, 1/4 watt, series resistor, molded within snap assembly, limits current for operator safety.
- Spring loaded snap socket.
- Alligator clip included.

Cat. No. 12-8010

Wrist Strap Only

Cat. No. 12-8011



Combination Wrist Strap/Footwear Tester

The combination wrist strap and footwear tester is a simple-to-operate single station test fixture designed for fast, frequent testing of ESD personnel grounding devices. The tester is easy to operate and interpret. The tester automatically switches

internal circuitry to test at the appropriate ranges. The tester will operate on either a 9 volt alkaline battery or a special AC adaptor. 9 volt battery and AC adaptor sold separately. A 17" x 22" wall poster is also included detailing both wrist strap and footwear testing procedures.

Features:

Dual test circuits: ensures accuracy when testing either footwear or wrist straps.

Auto-ranging circuitry: automatically selects proper test range for footwear and wrist strap.

3 state indicators: indicates low-pass-or high results.

Low-battery indicator: ensures proper operation.

Battery operated: maximum portability.

Mounting slots: quick and easy wall mounting.

Wrist strap test range: 750K - 10M

Foot ground test range: 750K - 100M.

Test parameters are factory set but can be adjusted to match your own specifications.

Combination Tester

Cat. No. 12-8055

AC Adapter

Cat. No. 12-8056

Stand and Baseplate

Cat. No. 12-8057

Footplate and Cord

Cat. No. 12-8058



Touch Type On Demand Wrist Strap Tester

Operates on either 120V AC or a 9 volt battery with a ground cord that is independent of the AC utility plug. Tests the entire circuit including the connection to the skin with a reliable resistance test.

The tester can be easily mounted any place on the bench or on the wall. Wrist strap does not have to be plugged into the unit to test. 9 volt battery and AC adapter sold separately.

Features:

3 state indicators: indicates low-pass-high.

Compact size: maximum portability.

Audible/visual indication: easy to use.

Operates on AC or batteries: allows for use as a portable or permanently installed unit.

Range: 750K ohm to 10 Megohm

Size: 3" x 4" x 1 5/8".

Cat. No. 12-8050

AC Adapter for Tester

Cat. No. 12-8051

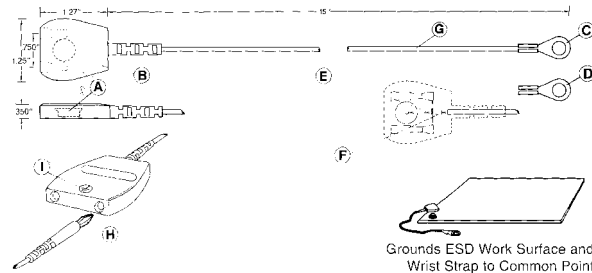


Common Point Ground Cords for Bench Mats

Includes:

- Wire terminated with a #10 (.200") ring terminal. An extra ring terminal is provided to allow custom tailoring to your installation.
- Two banana jacks for wrist straps connected directly to ground without resistors.

Yellow striped green wire (International code for ground). Both the mat snap and banana jacks are connected directly to ground. **Workstation mat not included.**



- A. 10 mm (.395") snap stud to ground work surface.
- B. Molded in black thermoplastic elastomer.
- C. Ring terminal .200" ID (#10).
- D. Extra ring terminal included for customizing length.
- E. The 12-8032 has no resistor between the snap and ground, with banana jacks also at ground potential.
- F. Wire is autosplice crimped to secure it inside of the mold.
- G. High flex strand copper, 20 gauge, with PVC insulated jacket (green insulation with yellow stripe, OD = .100").
- H. Dual banana jacks at ground potential.
- I. Ground symbol molded into the plastic

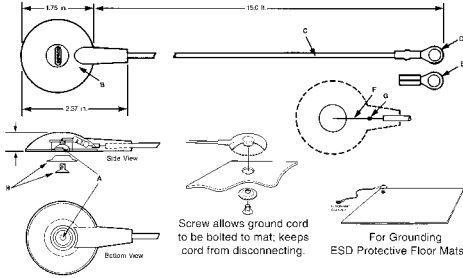
Cat. No. 12-8032



Ground Cords for Floor Mats with 10 mm Studs

Fifteen feet of wire, terminated with a #10 (.200") ring terminal. An extra ring terminal is provided to allow custom tailoring to your installation. Actual product may vary slightly from photo.

Yellow striped green wire (International code for ground). The mat snap is connected directly to ground. **Workstation mat not included.**



- A. 10 mm (.395 in.) male snap to ground floor mats.
- B. Molded in black thermoplastic elastomer.
- C. High flex strand copper, 20 gauge, with PVC insulated jacket (green insulation with yellow stripe, OD = .107")
- D. Ring terminal, .200" ID, (#10).
- E. Extra ring terminal provided for customizing length.
- F. Item 12-8026 has no resistor between the snap and ground.
- G. Brass crimp secures conductors and provides stress relief.
- H. 6-32 x 1/4" flat head screw and washer allow floor mat ground to be bolted to mat.

Cat. No. 12-8026

2 Pack, 3/8" Push and Clinch 10 mm Snap Stud

Cat. No. 12-8028



Ground Cords for Mats with 10 mm Studs

Ten feet of wire, terminated with a #10 (.200") ring terminal. An extra ring terminal is provided to allow custom tailoring to your installation. Yellow striped green wire (International code for ground). The mat snap is connected directly to ground.

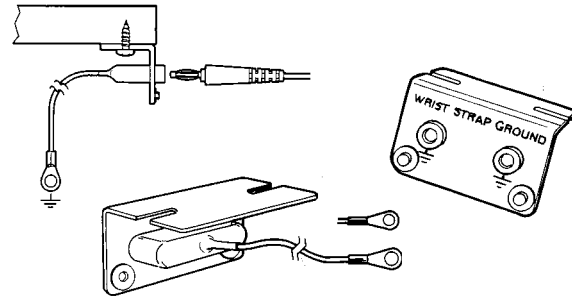
Cat. No. 12-8024



Dual Bench Mount

Features include:

- 2 banana jacks: allows 2 people to ground wrist straps simultaneously.
- 2 "parking studs": prevent cord from being accidentally stepped on when not in use.
- Mounts under the front edge of workstation: saves work space.



- A. Dual banana jacks for grounding two wrist straps.
- B. Black anodized aluminum angle bracket frame, mounts underneath worksurface.
- C. Dual .155" (4 mm) studs for "parking" wrist strap ground cords when not in use.
- D. 10' ground wire. Insulator: PVC, yellow striped green, .100" OD. Conductor: 105 strands each. Approximately 22 gauge with a #10 (.200" ID) ring terminal.
- E. Slotted bracket allows easy installation for screws with a maximum diameter of .175" (4.4 mm).
- F. Grounding symbol markings on each banana jack..
- G. Extra #10 (.200" ID) ring terminal for custom installation.
- H. Vinyl boot insulates electrical circuits.

Cat. No. 12-8030



Field Service Kit

This kit is designed to be folded to fit into a shirt or pants pocket. The kit includes one ground snap, adjustable wrist strap and ground cord. Laminated Vinyl 18 Mil Red. Size: 15" x 20" Surface Resistivity: 10⁸ - 10⁹ ohms/sq per ASTM-D257.

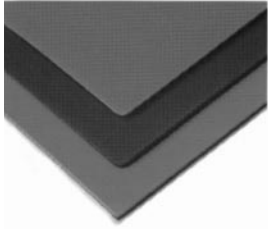
Cat. No. 12-8038



Dissipative Workstation Kit

Mat with Common Point Ground for those who already have wrist straps and need to install bench tops. Each kit includes: 1-18" x 24" blue bench mat (12-8041) 1-Common point ground cord (12-8032) 1-Universal snap kit (12-8028).

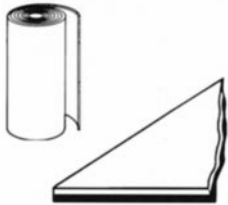
Cat. No. 12-8042



ESD Two Layer Workstation Mat

The two layer construction allows it to be used as a dissipative or a conductive matting product. The soft dissipative layer makes an excellent table mat, ideal for use in soldering and assembly areas. The conductive layer provides a durable slip resistant flooring surface, ideal for use in applications requiring conductive footwear. This rubber material has superior

resistance to abrasion, chemicals and is very easy to clean and maintain. This material is heat resistant and will not produce toxic fumes if exposed to extremely high temperatures. Solder and flux will not damage the surface.



Specifications:

- RTT:** 4 x 106 - 9 x 106 Ohms per ANSI/EOS/ESD-S4.1 @ 100 volts
- RTG:** 2 x 106 - 4 x 106 Ohms per ANSI/EOS/ESD-S4.1 @ 100 volts
- Charge Decay:** 0.01 - 0.02 seconds per FTMS 101C, Method 4046
- Thickness:** .060 in. (1.5 mm)
- Color:** Blue

Grounding hardware is NOT INCLUDED with rolls and must be ordered separately. Continuous runs of static dissipative materials should be grounded at six-foot intervals to ensure proper dissipation rates.

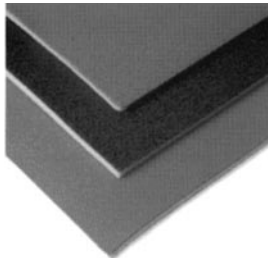
Cat. No. 12-8043



Two Layer Workstation Kit

Mat with Common Point Ground for those who already have wrist straps and need to install bench tops. Each kit includes: 1-18" x 24" blue bench mat (12-8043) 1-Common point ground cord (12-8032) 1-Universal snap kit (12-8028)

Cat. No. 12-8044



ESD Three Layer Workstation Mat

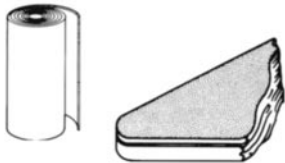
Material is a highly effective three-layer material. Its durable top layer makes it ideally suited for use as an ESD protective bench or floor mat. Its highly conductive middle layer provides a superior discharge path to ground. A closed cell foamed dissipative bottom layer provides excellent protection against physical damage.

Specifications:

- RTT:** 4.0 x 107 Ohms per EOS/ESD-S4.1 per @ 10 volts
- RTG:** 2.4 x 107 Ohms per EOS/ESD-S4.1 per @ 10 volts
- Thickness:** 100" (2.5 mm)
- Color:** Blue

Grounding hardware is NOT INCLUDED with rolls and must be ordered separately. Continuous runs of static dissipative materials should be grounded at six-foot intervals to ensure proper dissipation rates.

24" x 40' Bulk Roll
Cat. No. 12-8045

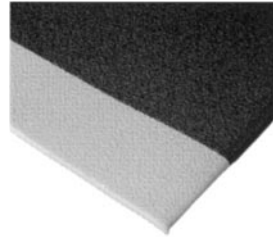


Three Layer Workstation Kit

Mat with Common Point Ground for those who already have wrist straps and need to install bench tops.

- Each kit includes:**
- 1-18" x 24" blue bench mat (12-8045)
- 1-Common point ground cord (12-8032)
- 1-Universal snap kit (12-8028)

Cat. No. 12-8046



Antifatigue Dissipative Floor Mat

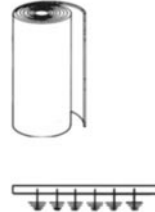
Foamed soft antifatigue floor mat is designed to reduce fatigue or for use where cushioning is required. Material has shown no loss of electrical properties due to wear and aging over a ten year period. Due to the extra thickness of this material, long grounding studs are required. Universal Snap Kit (12-8028) for the grounding stud is recommended.

Specifications:

- RTT:** 2.5 x 109 Ohms per EOS/ESD-S4.1
- RTG:** 4.6 x 109 Ohms per EOS/ESD-S4.1
- Charge Decay:** Less than .1 seconds per FTMS 101C Method 4046, IS-5A
- Thickness:** .375" (9.5 mm)
- Color:** Grey with yellow safety stripe

Grounding hardware is NOT INCLUDED with rolls and must be ordered separately. Continuous runs of material should be grounded at six-foot intervals to ensure proper dissipation rates.

Cat. No. 12-8047



Floor Ground Kit

Kit Includes: 1-24" x 36" floor mat (12-8047) 1-Ground cord (12-8026) 1-Universal snap kit (12-8028).

Cat. No. 12-8048



Antistatic Packaging Tape

Antistatic tape is a transparent cellophane tape that provides protection against the generation of static charges. This tape will typically generate less than 250 volts compared to over 5000 volts for standard tape.

- Appearance:** Light yellow transparent cellulose based film
- Length:** 216 ft. (72 yds.)
- Thickness:** 2 mils (0.002 inch)
- Static Generation:** <250 volts @ 50%RH
- Core Size:** 3 inch
- Tensile Strength:** 90 N/25 mm
- Peel Adhesion:** 19 N/25 mm
- Elongation at Break:** 18%.

- 1" Width
Cat. No. 12-8061
- 2" Width
Cat. No. 12-8062



Hand Lotion

A static dissipative, non-contaminating hand lotion enriched with Aloe Vera and Vitamin E. This non-acidic lotion promotes softer, healthier hands and nails. Static dissipative helps in keeping skin moist for better contact between the wrist strap and the skin. No glycerin, mineral oil, silicones or lanolin. Absorbs immediately and is completely non-greasy so it won't interfere with grip or dexterity.

Cat. No. 12-8085



SWITCHES/ PANEL LAMPS/LED'S

There are few electronic devices or circuits that do not have a switch of some sort. This catalog offers you more than 400 different switches, designed to meet your needs. These switches are usually available to you from stock or can be obtained in a relatively short time frame. But GC is more than just 400 stock switches.

In the course of developing this broad line of commodity switches, GC has developed relationships with the majority of the major switch manufacturers around the world. GC's knowledge of the switch industry and its daily contacts with manufacturers enables us to cut your lead time and sourcing efforts down to a simple call. If you do not find the switch that you need on the following pages, call us and we'll find it for you.

Contents:

TOGGLE Switches

- AC/DC Switches
- Appliance
- Automotive/Marine
- Bat Handle
- Light/Medium/Heavy Duty
- Lighted
- Miniature
- Paddle Handle
- Standard



ROCKER Switches

- Automotive/Marine
- Curved Style
- Miniature
- Rocker w/LED
- Snap-In
- Standard
- V-Style



PUSHBUTTON Switches

- AC/DC Switches
- Appliance
- Auto/Marine Starter & Horn
- Canopy Style
- Lighted
- Miniature
- Power Switches
- Round/Square/Rectangular Style
- Standard
- Sub-Miniature
- Tactile-Sub-Mini & Mini Style



PANEL LAMPS/LED'S

- Incandescent Panel Lamps
- Standard LED'S



SNAP-ACTION Switches

- Miniature
- Lever/Pin/Pushbutton/Roller Styles
- Standard
- Sub-Miniature



SPECIALTY Switches

- Auto/Marine Push-Pull
- Cord/In-Line Cord
- Key & Keyboard Switches
- Knife Switch
- Mercury Tilt Switch
- Pull-Chain Switches
- Reed Switches



SLIDE Switches

- Miniature
- Standard



ROTARY Switches

- Appliance Style
- Shorting/Non-Shorting
- Wire Leads



KEYLOCK Switches

- 4-Tumbler Style
- 6-Tumbler Style
- With/Without Wire Leads



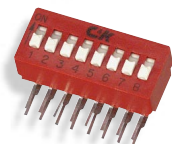
CIRCUIT BREAKERS

- 3-Through 30 Amp Selection




DIP Switches

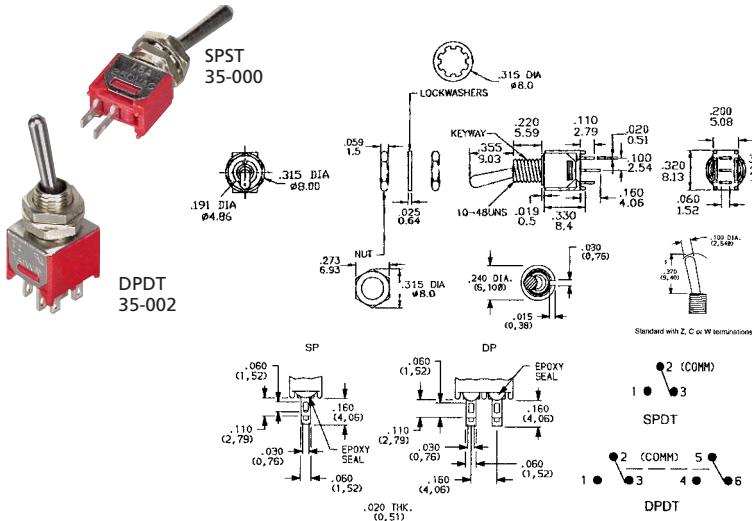
- 1 Through 12 Positions
- Right Angle Style
- Side Actuated Style
- Splash Resistant
- Washable/Open Style



TOGGLE SWITCHES

Sub-Miniature Bat Handle Toggle Switches

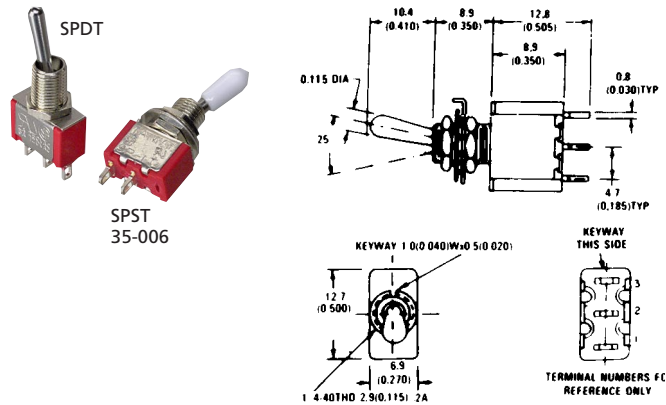
Specifications:
Current Rating: 3A-120V AC/28V DC (3A-125V AC, 35-000) 
Initial Contact Resistance: 20 Milliohms or less @ 2-4VDC
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Coin Silver – silver plated
Terminal Material: Copper Alloy – silver plate
Temperature Rating: -30°C to 85°C
Electrical Life: 60,000 make-and-break cycles at full load
Terminal Type: Solder
Mounting Hole: 0.219"-35-00/0.203"-35-01/02
Hardware for 35-000, 35-002: Nut (2), Locking Ring, Lockwasher
Hardware for 35-001: Nut (2), Washer (1)



TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Metal	35-000
SPDT	ON ON	Metal	35-001
DPDT	ON ON	Metal	35-002

Miniature Bat Handle Toggle Switches

Specifications:
Current Rating: 5A-120V AC, 2A-250V AC, 28V DC 
Initial Contact Resistance: 10 Milliohms (max.)@2-4 V DC
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Coin Silver – Silver plated
Terminal Material: Copper Alloy – Silver plate
Temperature Rating: -30°C to 85°C
Electrical Life: 40,000 make-and-break cycles at full load: 35-004=100,000 cycles
Terminal Type: Solder
Mounting Hole: 0.250"
Hardware: Nut (2), Locking Ring, Lockwasher



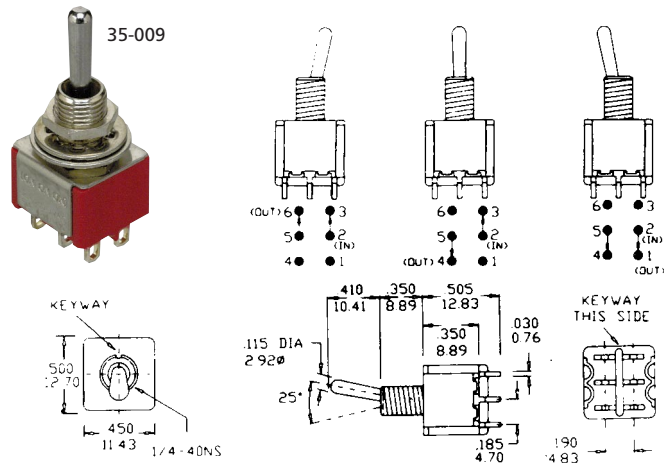
TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON (ON)	Metal	35-003
SPDT	ON ON	Metal	35-004
SPDT	ON OFF ON	Metal	35-005
SPST	ON OFF	Metal w/White Boot	35-006
SPDT	ON OFF (ON)	Metal	35-007
SPDT	(ON) OFF (ON)	Metal	35-008

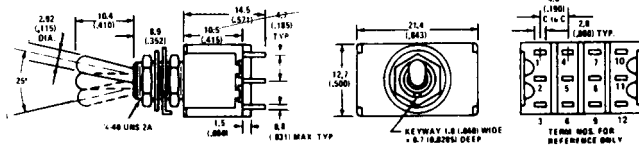
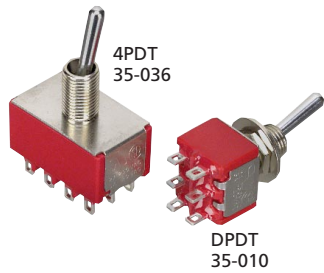
SPECIAL NOTE: () = Momentary Function

Miniature Bat Handle Toggle Switch

Specifications:
Current Rating: 5A 120V AC, 2A 250V AC 
Initial Contact Resistance: 2-4V DC .1A 10 Milliohms
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS
Contact Material: Coin Silver – Silver plate
Terminal Material: Brass – Silver plate
Temperature Rating: -30°C to +85°C
Electrical Life: 50,000 cycles
Terminal Type: Solder
Mounting Hole: 0.250"
Hardware: Nuts (2)/washer

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON ON ON	Metal	35-009





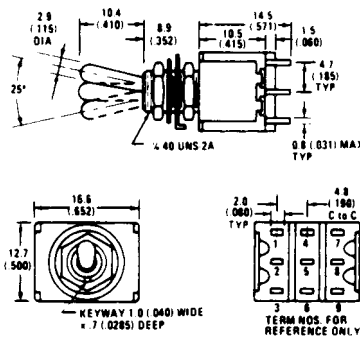
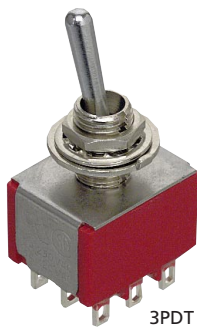
Miniature Bat Handle Toggle Switches



Specifications:
Current Rating: 5A-120V AC/28V DC, 2A-250V AC
Initial Contact Resistance: 10 Milliohms (max.) @2-4V DC
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Coin Silver – Silver plated
Terminal Material: Copper Alloy – Silver plate
Temperature Rating: -30°C to 85°C
Electrical Life: 100,000 make-and-break cycles at full load (35-010/35-036); others 40,000 cycles
Terminal Type: Solder
Mounting Hole: 0.250"
Hardware: Nuts (2), Locking Ring, Lockwasher

TYPE	ACTION			ACTUATOR	CAT. NO.
DPDT	ON	ON		Metal	35-010
DPDT	ON	OFF	ON	Metal	35-012
DPDT	ON		(ON)	Metal	35-014
DPDT	ON	OFF	(ON)	Metal	35-016
DPDT	(ON)	OFF	(ON)	Metal	35-018
4PDT	ON	ON		Metal	35-036
4PDT	ON	OFF	ON	Metal	35-038

SPECIAL NOTE: () = Momentary Function

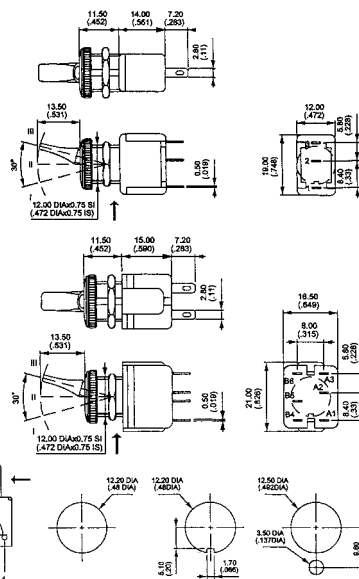
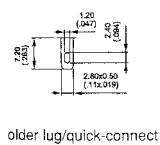


Miniature Bat Handle Toggle Switches



Specifications:
Current Rating: 5A-120V AC/28V DC, 2A-250V AC
Initial Contact Resistance: 2-4V DC 10 Milliohms
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Coin Silver – Silver plated
Terminal Material: Copper Alloy – Silver plate
Temperature Rating: -30°C to 85°C
Electrical Life: 100,000 cycles (35-24)/40,000 (35-26)
Terminal Type: Solder
Mounting Hole: 0.250"
Hardware: Nuts (2), Locking, Lockwasher

TYPE	ACTION			ACTUATOR	CAT. NO.
3PDT	ON	ON		Metal	35-024
3PDT	ON	OFF	ON	Metal	35-026

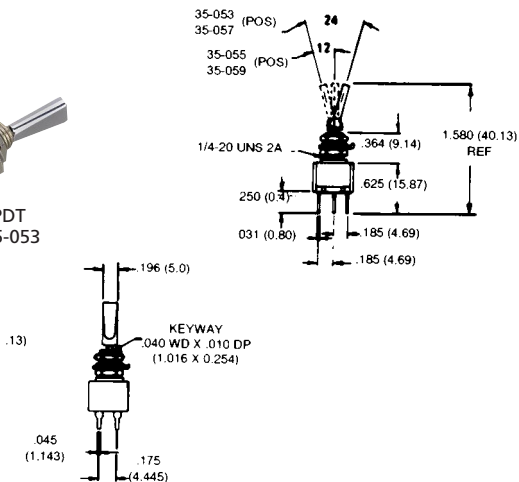
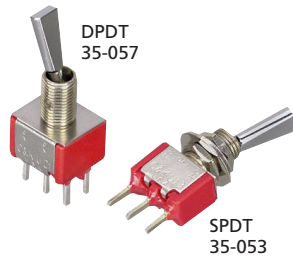


Miniature Plastic Toggle Switches



Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Initial Contact Resistance: 10 Milliohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 2000V RMS (min.)
Contact Material: Coin Silver
Terminal Material: Coin Silver
Temperature Rating: -20°C to +55°C
Electrical Life: 10,000 (min.) cycles
Terminal Type: Combination Solder Lugs/Quick Connect
Mounting Hole: 0.500"
Hardware: Hex nut, Black Knurled nut

TYPE	ACTION			ACTUATOR	CAT. NO.
SPDT	ON	ON		Plastic	35-070
SPDT	ON	OFF	ON	Plastic	35-071
DPDT	ON	ON		Plastic	35-072
DPDT	ON	OFF	ON	Plastic	35-073



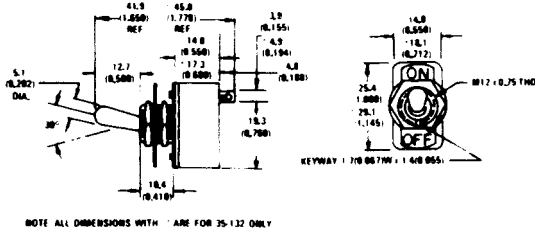
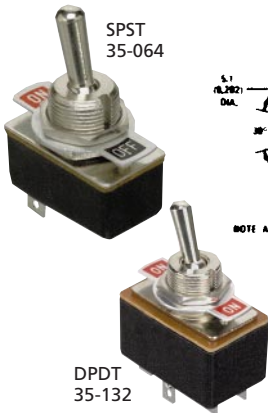
Miniature P.C. Toggle Switches



Specifications:
Current Rating: 5A-120V AC/28V DC-2A-250V AC
Initial Contact Resistance: 10 Milliohms @ 2-4VDC
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Coin Silver – Silver plate
Terminal Material: Copper Alloy – Silver plate
Temperature Rating: -30°C to 85°C
Electrical Life: 100,000 make-and-break cycles at full load (35-024/35-057), others at 40,000 cycles
Terminal Type: Printed Circuit
Mounting Hole: 0.250"
Hardware: Nut (2), Locking ring, Lockwasher

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON ON	Flat Lever	35-053
SPDT	ON OFF ON	Flat Lever	35-055
DPDT	ON ON	Flat Lever	35-057
DPDT	ON OFF ON	Flat Lever	35-059

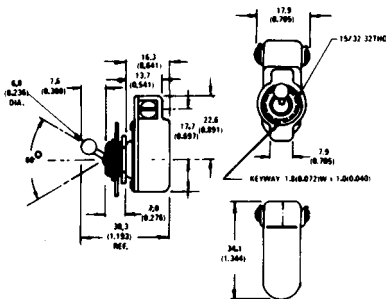
NOTE: Actuator chrome plated plastic



Light-Duty Bat Handle Toggle Switches

Specifications:
Current Rating: 4A-125V AC, 2A-250V AC-35-64/3A-125V AC-35-132
Initial Contact Resistance: 1A, 20 Milliohms (max.)
Insulation Resistance: 100 Megohms (min.) @500V DC
Dielectric Strength: 1250V RMS
Contact Material: Silver
Terminal Material: Copper Alloy – Tin plate
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: ID plates, Nuts (2)

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Metal	35-064
DPDT	ON ON	Metal	35-132



Standard Size Ball Handle Toggle Switch



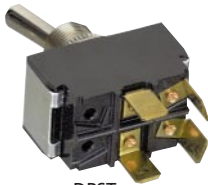
Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Initial Contact Resistance: 5.5V/1A, 0.025 Ohms
Insulation Resistance: 2000 Megohms
Dielectric Strength: 1250V RMS
Contact Material: Copper Alloy
Terminal Material: Copper Alloy
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Hex nut, ID plate, Knurled nut, Screws

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Metal	35-170

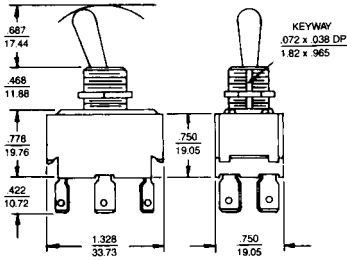
NOTE: Compact Design



DPDT
35-117



DPST
35-118



Toggle Switch



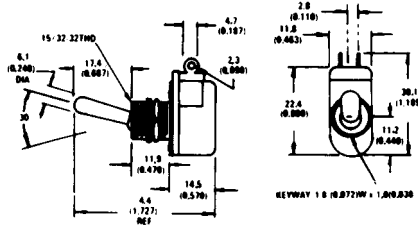
Specifications:

Current Rating: 6A-125V AC, 3A-250V AC, 1/4HP 125-250V AC
Initial Contact Resistance: 5.5V/1A, 0.025
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Silver
Terminal Material: Brass – Nickel plated
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: 0.250" Quick Connect
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl nut

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON ON	Metal	35-117
DPST	ON OFF	Metal	35-118



SPST
35-160



Medium Duty Bat Handle Toggle Switch



Specifications:

Current Rating: 6A-125V AC, 3A-250V AC
Initial Contact Resistance: 003 Ohms @ 125V, .010 @ 250V
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Brass – Bright dip
Terminal Material: Brass – Tin plated
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 (min.) cycles
Mechanical Life: 50,000 cycles
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: Hex nut, Knurled nut

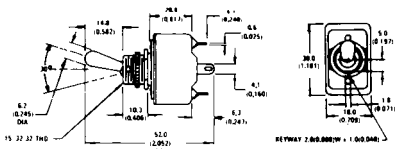
TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Metal	35-160



SPST
35-076



SPDT
35-114



Medium-Duty Bat Handle Toggle Switches

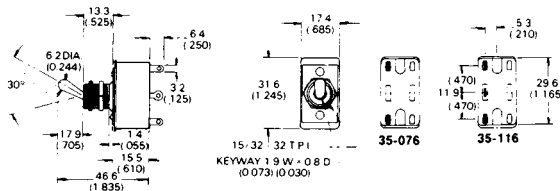


Specifications:

Current Rating: 6A-125V AC 3A-250V AC, 1/4 H.P. 120/240V AC
Initial Contact Resistance: 5.5V/1A, 0.025 Ohms
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS
Contact Material: Silver
Terminal Material: Brass – Silver plate
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles
Mechanical Life: 50,000 cycles
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: Hex nut, Knurled nut

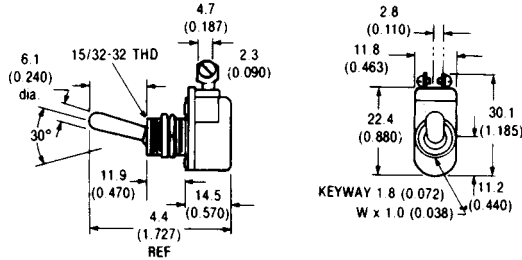
TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	OFF (ON)	Metal	35-076
SPDT	ON (ON)	Metal	35-116
SPDT	ON ON	Metal	35-114

SPECIAL NOTE: () = Momentary Function





35-167



Medium Duty Bat Handle Toggle Switch

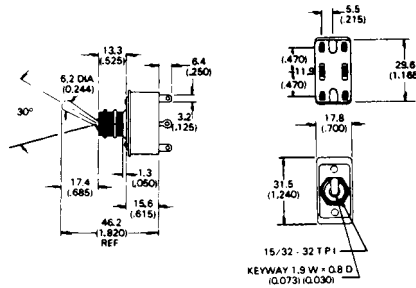


Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Initial Contact Resistance: 0.003 Ohms @ 125V, 0.010 Ohms @ 250V
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC
Contact Material: Copper-Silver plated
Terminal Material: Copper-Silver plated
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Hex nut, Knurled nut, Screws

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Metal	35-167



35-154



Medium-Duty Bat Handle Toggle Switch



Specifications:
Current Rating: 6A-125V AC, 3A-250V AC, 1/4HP 125-250VAC
Initial Contact Resistance: 5.5V/1A, 0.025 Ohms
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS
Contact Material: Copper Alloy – Silver plate
Terminal Material: Brass – Tin plate
Temperature Rating: -30°C to +85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl nut

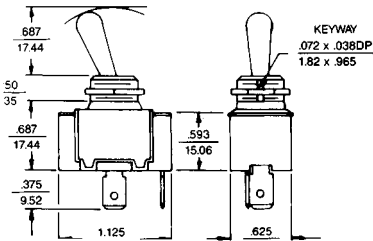
TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON (ON)	Metal	35-154

SPECIAL NOTE: () = Momentary Function



SPDT
35-1116

SPST
35-1076



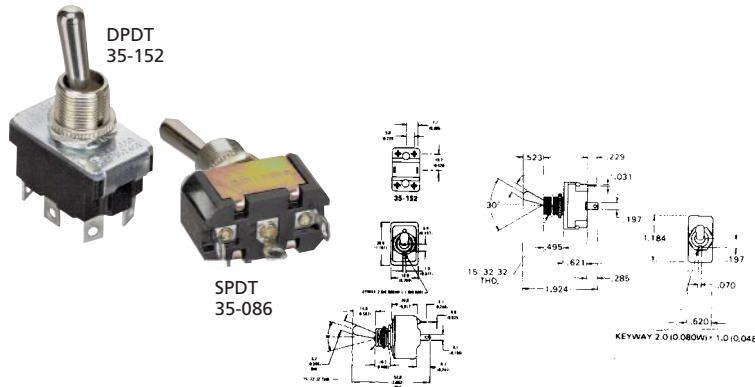
Medium-Duty Bat Handle Toggle Switches



Specifications:
Current Rating: 6A-125V AC, 3A-250V AC, 1/4HP 120-240V AC
Initial Contact Resistance: 5.5V/1A, 0.025
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS
Contact Material: Silver
Terminal Material: Brass – Silver plate
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl nut, Face nut, Screws

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	OFF (ON)	Metal	35-1076
SPDT	ON (ON)	Metal	35-1116
SPDT	ON ON	Metal	35-1114

SPECIAL NOTE: () = Momentary Function

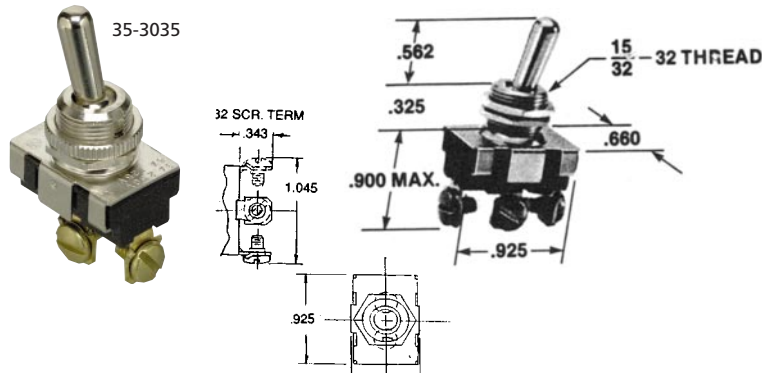


Medium-Duty Bat Handle Toggle Switches

Specifications:
Current Rating: For 35-086, 6A, 125V AC, 3A 250V AC, 1/4 H.P. 120/240V AC, For 35-112/35-152, 15A-120V AC, 10A - 240V AC
Initial Contact Resistance: 5.5V/1A, .025 Ohms
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS
Contact Material: Copper Alloy
Terminal Material: Copper Alloy - Tin plate
Temperature Rating: -30°C to 60°C
Electrical Life: 6000 cycles (min.)
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl or Face nut

TYPE	ACTION		ACTUATOR	CAT. NO.
SPDT	ON	OFF (ON)	Metal	35-086
DPST	ON	OFF	Metal	35-112
DPDT	ON	ON	Metal	35-152

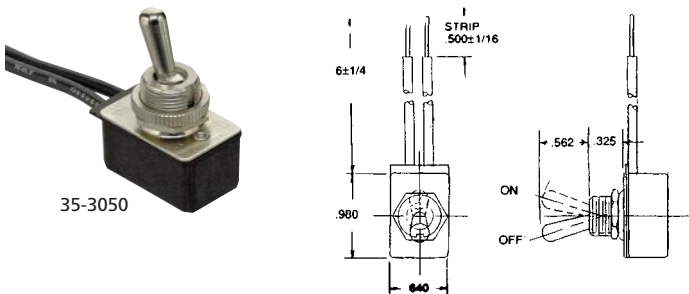
SPECIAL NOTE: () = Momentary Function



Utility Bat Handle Toggle Switch

Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper Alloy - Silver plate
Terminal Material: Copper Alloy - Silver plate
Temperature Rating: -30°C to +60°C
Electrical Life: 6,000 cycles (min.)
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: 2 nuts

TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Brass	35-3035



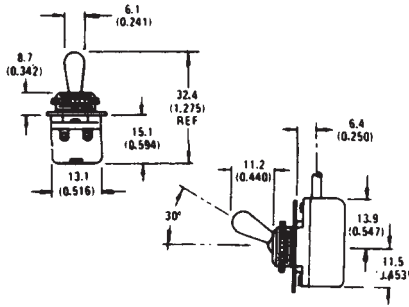
Utility Bat Handle AC/DC Toggle Switch

Specifications:
Current Rating: 10A-125V AC, 8A-125V DC, 4A 250V DC, 1/3 H.P. 125V AC
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper Alloy - Silver plate
Terminal Material: Copper Alloy - Silver plate
Temperature Rating: -30°C to 60°C
Electrical Life: 6,000 cycles (min.)
Terminal Type: 6" Wire Leads
Mounting Hole: 0.500"
Hardware: 2 nuts

TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Brass	35-3050



35-854



Bat Handle Appliance Type Toggle Switch

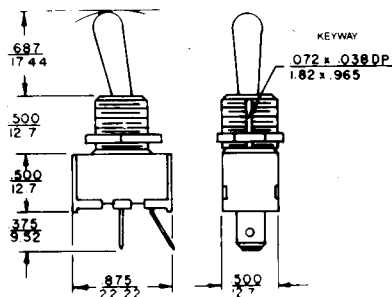
Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Initial Contact Resistance: 2.5V DC 1A 20m Ohms or Less
Insulation Resistance: 500V DC 200 Megohms or More
Dielectric Strength: 1250V AC
Contact Material: Copper Alloy
Terminal Material: Copper
Terminal Type: No. 18AWG 105°C Plastic 6" wire Leads, Stripped 1/2" and Tinned
Mounting Hole: 0.500"
Hardware: ID plate, Knurl nut



TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Plastic	35-854



SPST
35-119

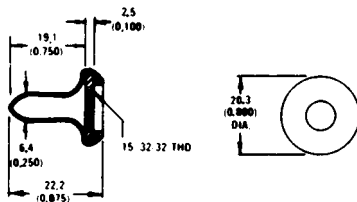


Toggle Switches

Specifications:
Current Rating: 10A-125V AC, 5A-250V AC, 1/2HP 125-250V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Resistance: 1000V AC (min.)
Contact Material: Silver
Terminal Material: Brass – Nickel plated
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles min
Mechanical Life: 50,000 cycles (min.)
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.500"
Hardware: Knurled nut, Hex nut



TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Metal	35-119
SPDT	ON	ON	Metal	35-120



Bat Handle Toggle Switch Boot

Flexible molded splashproof cover for standard bat handle toggle switches. Protects switching mechanism from dust and moisture. Accepts switch levers to 1/4" diameter and 3/4" length. Supplied with internal ring nut to fit 15/32" diameter bushing.

Material Cat. No. Fits switches listed below:

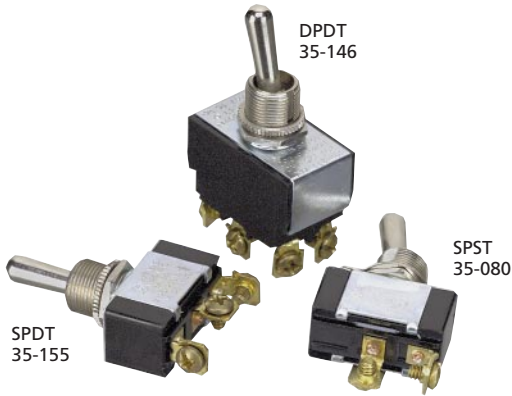
35-076	35-114	35-126	35-143	35-151	35-167
35-078	35-116	35-130	35-144	35-152	35-168
35-080	35-117	35-132	35-146	35-153	35-170
35-086	35-118	35-139	35-148	35-154	35-1076
35-110	35-119	35-140	35-149	35-155	35-1114
35-112	35-120	35-141	35-150	35-160	35-1116

THREAD SIZE	MATERIAL	CAT. NO.
15/32-32	Vinyl Elastomer	35-060



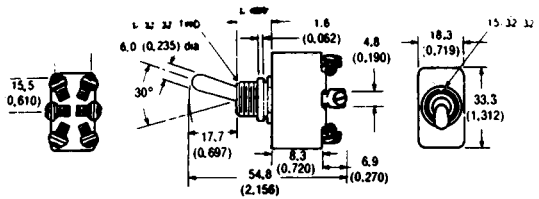
Switch ID Plate

ON/OFF Standard ID Plate for toggle switches: fits 15/32 bushings
10 pack Only
Cat. No. 35-061-BU



Heavy Duty Bat Handle Toggle Switches

Specifications:
Current Rating: 20A-125V AC/10A-277V AC/3/4 HP 125-250V AC for 35-80, 35-110, 35-130, 35-153, 35-155
Current Rating: 20A-125V AC/10A-277V AC/1-1/2 HP 125-250V AC for 35-146, 35-148, 35-150, 35-151, 35-3120
Initial Contact Resistance: 50m Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: Exceeds 1000V RMS
Contact Material: Brass – Nickel plate
Terminal Material: Brass
Temperature Rating: -30°C to 60°C
Electrical Life: 6000 cycles (min.)
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl nut, Screws - 35-80 inclds ID plate

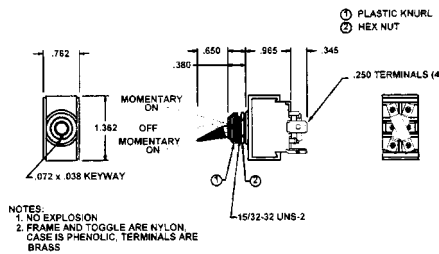


TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Metal	35-080
SPDT	ON	OFF ON	Metal	35-110
SPDT	ON	ON	Metal	35-130
DPDT	ON	ON	Metal	35-146
DPDT	ON	OFF ON	Metal	35-148
DPDT	(ON)	OFF (ON)	Metal	35-150
DPDT	ON	OFF (ON)	Metal	35-151
SPDT	ON	OFF (ON)	Metal	35-153
SPDT	(ON)	OFF (ON)	Metal	35-155
DPST	ON	OFF	Metal	35-3120

SPECIAL NOTE: () = Momentary Function



35-3125

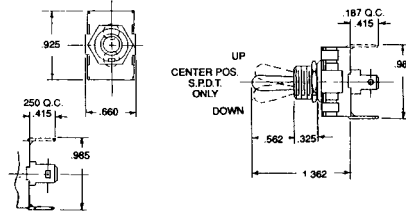


Reversing Toggle Switch

Specifications:
Current Rating: 14V @ 21A DC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Silver
Terminal Material: Brass
Temperature Rating: -30°C to 85°C
Electrical Life: 6000 cycles min
Terminal Type: .250 Quick Connect
Mounting Hole: 0.500"
Hardware: Black Face nut, Nickel Hex nut

TYPE	ACTION		ACTUATOR	CAT. NO.
DPDT	(ON)	OFF (ON)	Nylon	35-3125

SPECIAL NOTE: () = Momentary Function — "O" Ring seal for moisture/water resistance (not water proof)

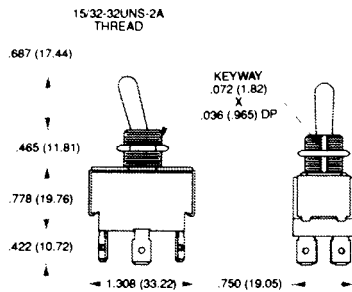


Utility Bat Handle Toggle Switches



Specifications:
Current Rating: 20A-125V AC, 10A-250V AC, 3/4 HP 125-250V AC
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper Alloy
Terminal Material: Copper Alloy – Brass plated
Temperature Rating: -30°C to 60°C
Electrical Life: 6000 cycles (min.)
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl nut

TYPE	ACTION		ACTUATOR	CAT. NO.	
SPST	ON	OFF	Brass	35-3005	
SPDT	ON	ON	Brass	35-3010	
SPDT	ON	OFF	ON	Brass	35-3015

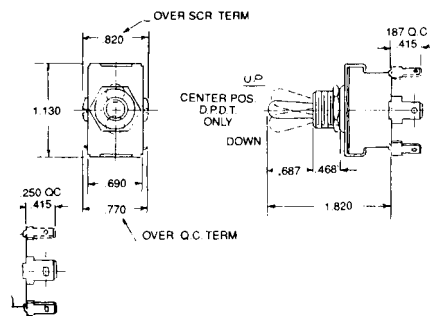


Utility Bat Handle Toggle Switches



Specifications:
Current Rating: 20A-125V AC, 10A-277V AC 1-1/2HP 125-250VAC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Fine Silver or Brass
Terminal Material: Brass – Nickel plate
Temperature Rating: -30°C to 88°C
Electrical Life: 6000 cycles (min.)
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.500"
Hardware: 2 nuts

TYPE	ACTION		ACTUATOR	CAT. NO.	
DPDT	ON	ON	Brass	35-3020	
DPDT	ON	OFF	ON	Brass	35-3025



Utility Bat Handle Toggle Switches

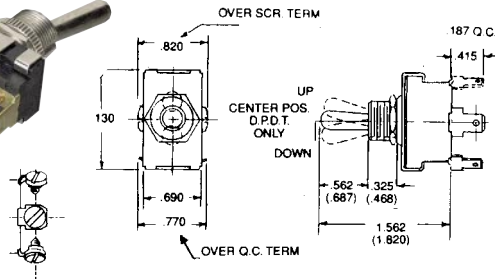


Specifications:
Current Rating: 20A-125V AC, 10A-250V AC, 3/4 HP 125-250V AC
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper Alloy – Silver plated
Terminal Material: Copper Alloy – Silver plated
Temperature Rating: -30°C to 85°C
Terminal Type: 0.250 Quick Connect/Screw on 35-3060 Only
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl nut (2 nuts/screws for 35-3060 only)

TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Brass	35-3040
DPST	ON	OFF	Brass	35-3045
DPST	ON	OFF	Brass	35-3060



SPST
35-3055



Utility Bat Handle Toggle Switches



Specifications:

Current Rating 35-3055: 20A-125V AC, 10A-250V AC, 3/4 H.P. 125-250V AC

Current Rating 35-3065: 20A-125V AC, 10A-277V AC, 1-1/2 H.P. 125-250V AC

Insulation Resistance: 100 Megohms

Dielectric Strength: 1000V RMS (min.)

Contact & Terminal Material: Copper Alloy – Silver plate (35-3055)

Contact & Terminal Material: Brass – Nickel plate (35-3065)

Temperature Rating: -30°C to 60°C

Electrical Life: 6000 cycles in.

Terminal Type: Screw 35-3065, Quick Connect 35-3055

Mounting Hole: 0.500"

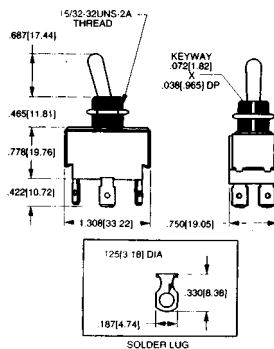
Hardware: Hex nut, Face nut + Screws for 35-3065 only

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	OFF (ON)	Brass	35-3055
DPST	ON (OFF)	Brass	35-3065

SPECIAL NOTE: () = Momentary Function



SPST
35-078



Heavy Duty Bat Handle Toggle Switches



Specifications:

Current Rating: 15A-125V AC, 10A-250V AC 3/4 H.P. 125-250V AC(35-078)--20A-125V AC, 10A-277V AC 1-1/2 HP 125-250VAC (35-144/149)

Initial Contact Resistance: 5.5V/1A, 0.005 Ohms

Insulation Resistance: 1000 Megohms

Dielectric Strength: 1000V RMS

Contact Material: Silver or Brass

Terminal Material: Copper Alloy – Silver plate or Brass – Nickel plate

Temperature Rating: Not to exceed 85°C

Electrical Life: 10,000 cycles (min.)

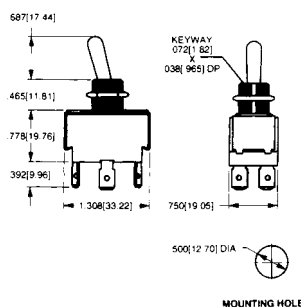
Mechanical Life: 50,000 cycles min (35-078) others UL rated 6000 (min.)

Terminal Type: Solder

Mounting Hole: 0.500"

Hardware: Hex nut, Face or Knurl nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Metal	35-078
DPDT	ON ON	Metal	35-144
DPDT	ON OFF ON	Metal	35-149



Toggle Switch



Specifications:

Current Rating: 20A-125V AC, 10A-277V AC 1-1/2 H.P. 125-250V AC

Insulation Resistance: 100 Megohms (min.)

Dielectric Strength: 1000V RMS (min.)

Contact Material: Silver – Brass

Terminal Material: Brass – Nickel plate

Temperature Rating: -30 to 85°C

Electrical Life: 6000 cycles (min.)

Terminal Type: 0.250" Quick Connect

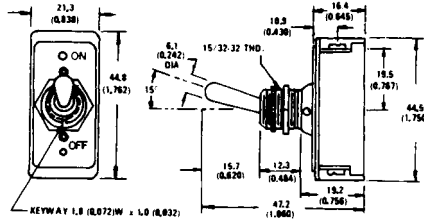
Mounting Hole: 0.500"

Hardware: hex nut with Knurl or Face nut

TYPE	ACTION	ACTUATOR	CAT. NO.
DPST	ON OFF	Metal	35-185



35-126



Heavy-Duty Bat Handle Toggle Switch

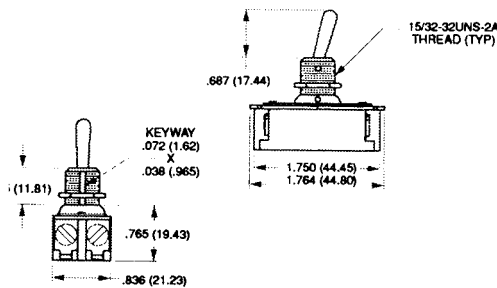


Specifications:
Current Rating: 16A-125V AC, 8A-250V AC, 1HP 125-250VAC
Initial Contact Resistance: 5.5V/1A, 0.005 Ohms
Insulation Resistance: 1000 MegW
Dielectric Strength: 1000V RMS
Contact Material: Silver
Terminal Material: Brass – Silver plate
Temperature Rating: Not to Exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Face nut, Hex nut

TYPE	ACTION	ACTUATOR	CAT. NO.
DPST	ON OFF	Metal	35-126



35-3070



Heavy Duty AC Bat Handle Toggle Switch

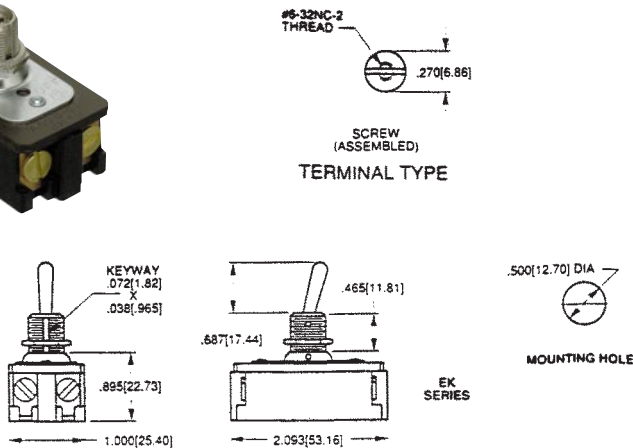


Specifications:
Current Rating: 16A-125V AC, 8A-250V AC, 1-1/2 H.P. 125-250V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper
Terminal Material: Copper
Temperature Rating: Not to Exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Screws, Hex nuts

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Brass	35-3070



35-3075

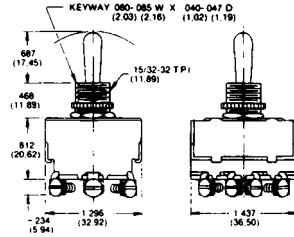


Heavy Duty AC/DC Bat Handle Toggle Switch



Specifications:
Current Rating: 20A-125V AC/DC, 10A-250V AC/DC, 1-1/2 H.P. 125-250V AC/DC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper Alloy - Brass plated
Terminal Material: Copper Alloy - Brass plated
Temperature Rating: Not to Exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Screws, Hex nuts

TYPE	ACTION	ACTUATOR	CAT. NO.
DPST	ON OFF	Brass	35-3075



Heavy Duty AC Bat Handle Toggle Switch

Specifications:

Current Rating: 35-139, 35-140 1-1/2 H.P. 250V AC, 35-141/1-1/2 H.P. 250V AC; 17A-125V AC/12A-250V AC 35-143 3/4 H.P.

Insulation Resistance: 100 Megohms (min.)

Dielectric Strength: 1000V RMS (min.)

Contact Material: Silver

Terminal Material: Brass – Nickel plate

Temperature Rating: Not to Exceed 85°C

Electrical Life: 10,000 cycles (min.)

Mechanical Life: 50,000 cycles (min.)

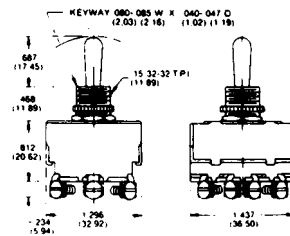
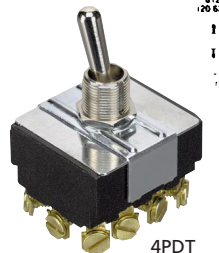
Terminal Type: Screw

Mounting Hole: 0.500"

Hardware: Screws, Face nut, Hex nut



TYPE	ACTION		ACTUATOR	CAT. NO.
3PST	ON	OFF	Metal	35-139
3PDT	ON	OFF ON	Metal	35-140
3PDT	ON	ON	Metal	35-141
4PDT	ON	OFF ON	Metal	35-143



Heavy Duty AC Toggle Switch

Specifications:

Current Rating: 15A-125V AC, 10A-250V AC, 3/4 H.P. 125-250V AC

Insulation Resistance: 100 Megohms (min.)

Dielectric Strength: 1000V RMS (min.)

Contact Material: Silver

Terminal Material: Brass – Nickel plate

Temperature Rating: Not to exceed 85°C

Electrical Life: 10,000 cycles (min.)

Mechanical Life: 50,000 cycles (min.)

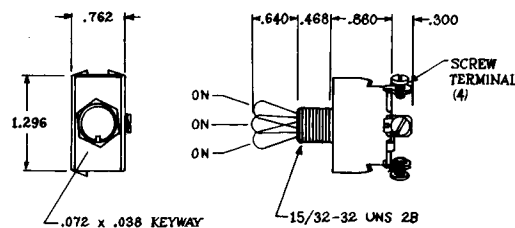
Terminal Type: Screw

Mounting Hole: 0.50"

Hardware: Screws, Face nut, Hex nut



TYPE	ACTION		ACTUATOR	CAT. NO.
4PST	ON	OFF	Metal	35-145
4PDT	ON	ON	Metal	35-3080



Utility Bat Handle Toggle Switch (Two Circuit)

Specifications:

Current Rating: 20A-125V AC, 10A-277V AC, 1-1/2 H.P. 125/250V AC

Insulation Resistance: 100 Megohms (min.)

Dielectric Strength: 1000V AC (min.)

Contact Material: Brass – Nickel plate

Terminal Material: Brass

Temperature Rating: -30°C to 85°C

Electrical Life: 6000 cycles (min.)

Terminal Type: Screw

Mounting Hole: 0.500"

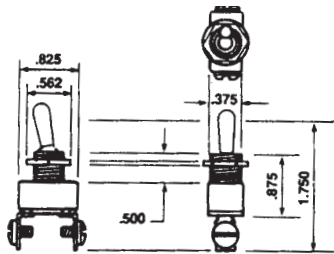
Hardware: Hex nut, Face nut, Screws



TYPE	ACTION		ACTUATOR	CAT. NO.
Progressive	1 & 2	1ON OFF	Brass	35-3135
Two Circuit		ON		



35-3170



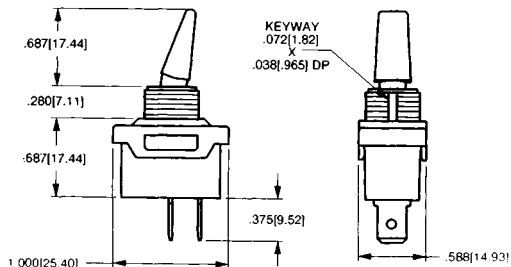
Automotive/Marine Bat Handle Toggle Switch

Specifications:
Current Rating: 35A-6V DC, 20A-12V DC
Terminal Material: Brass
Terminal Type: Screw
Mounting Hole: 0.438"
Hardware: Screws, Knurled nut

TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Brass	35-3170



35-3009



Flat Lever Toggle Switch (Insulated)

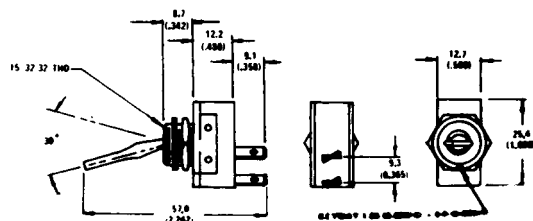


Specifications:
Current Rating: 20A-125V AC, 10A-250V AC, 1-1/2 HP 125-250V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper
Terminal Material: Copper
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.500"
Hardware: Black Knurl nut

TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Nylon	35-3009



35-178

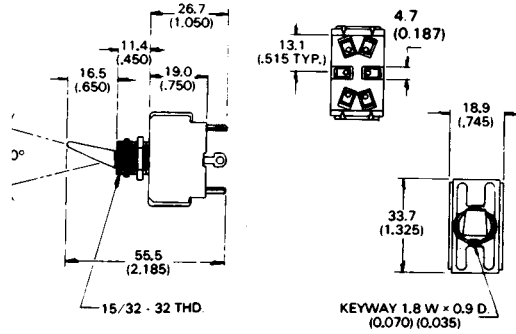


Standard Size Paddle Handle Toggle Switch

Specifications:
Current Rating: 20A-125/250V AC, 1/2 H.P. 125V AC, 1 H.P. 250V AC
Initial Contact Resistance: 5.5V/1A, 0.010 Ohms
Insulation Resistance: 2000 Megohms
Dielectric Strength: 1500V AC RMS
Contact Material: Silver
Terminal Material: Silver Plated Copper Alloy
Terminal Type Combination: 1/4" Quick Connect and Solder
Mounting Hole: 0.500"
Hardware: Black Hex nut, Brass Face nut



TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Black Plastic	35-178

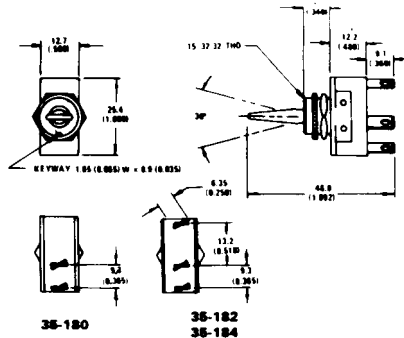


Standard Size Paddle Handle Toggle Switch

Specifications:

Current Rating: 6A-125V AC, 3A-250V AC, 1/4HP 125-250V AC
Initial Contact Resistance: 5.5V/1A, 0.010 Ohms
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V AC RMS
Contact Material: Silver
Terminal Material: Copper Alloy – Tin plated
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: Face nut, Hex nut

TYPE	ACTION		ACTUATOR	CAT. NO.
DPDT	ON	ON	Black Plastic	35-186
DPDT	ON	OFF ON	Black Plastic	35-188

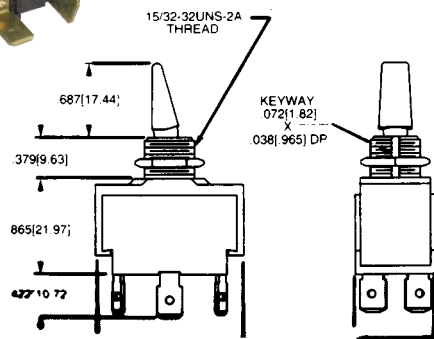
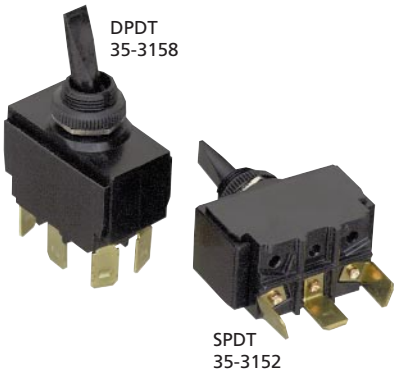


Standard Size Paddle Handle Toggle Switch

Specifications:

Current Rating: 10A-125V AC, 5A-250V AC, 1/2HP 125-250V AC
Initial Contact Resistance: 5m Ohms (max.)
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V AC (min.)
Contact Material: Silver
Terminal Material: Copper Alloy
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: Combination 1/4" Quick Connect and Solder
Mounting Hole: 0.500"
Hardware: Nylon Face nut, Nickel Hex nut

TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Black Plastic	35-180
SPDT	ON	ON	Black Plastic	35-182
SPDT	ON	OFF ON	Black Plastic	35-184



Automotive/Marine Toggle Switches

Specifications:

Current Rating: 20A-125V AC, 10A-277V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Fine Silver
Terminal Material: Brass
Temperature Rating: -30°C to 60°C
Electrical Life: 6000 cycles (min.)
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.500"
Hardware: Black Face nut, Nickel Hex nut

TYPE	ACTION			ACTUATOR	CAT. NO.
SPDT	ON	OFF	ON	Nylon	35-3150
SPDT	(ON)	OFF	(ON)	Nylon	35-3152
DPST	ON	OFF	ON	Nylon	35-3154
DPDT	ON	ON	ON	Nylon	35-3156
DPDT	ON	OFF	ON	Nylon	35-3158

SPECIAL NOTE: () = Momentary Function



Automotive/Marine Toggle Switches

Specifications:
Current Rating: 20A-125V AC, 10A-250V AC*
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Fine Silver
Terminal Material: Brass
Temperature Rating: -30°C to 60°-85°C
Electrical Life: 6000 cycles (min.)
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Black Face nut, Screws, Nickel Hex nut

TYPE	ACTION		ACTUATOR	CAT. NO.	
SPST	ON	OFF	Nylon	35-3160	
SPDT	ON	ON	Nylon	35-3162	
DPST	ON	OFF	Nylon	35-3164	
DPDT	ON	ON	Nylon	35-3166	
DPDT	ON	OFF	ON	Nylon	35-3168
SPDT	(ON)	OFF	(ON)	Nylon	35-3167

No. SPECIAL NOTE: () = Momentary Function
 *Some switches now rated at 10A-277V AC

Lighted Paddle Handle Toggle Switches

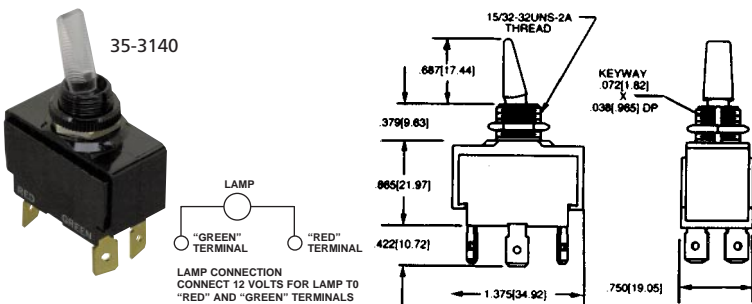
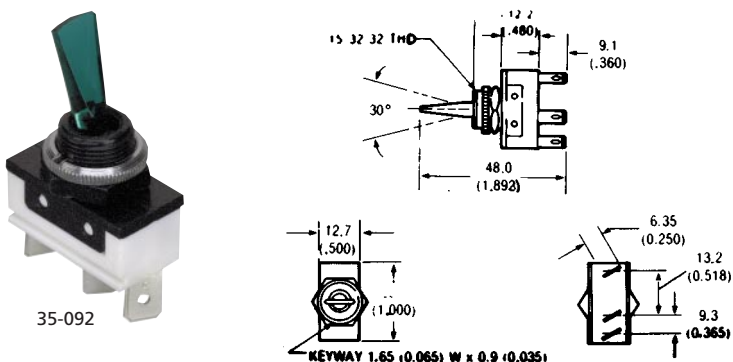
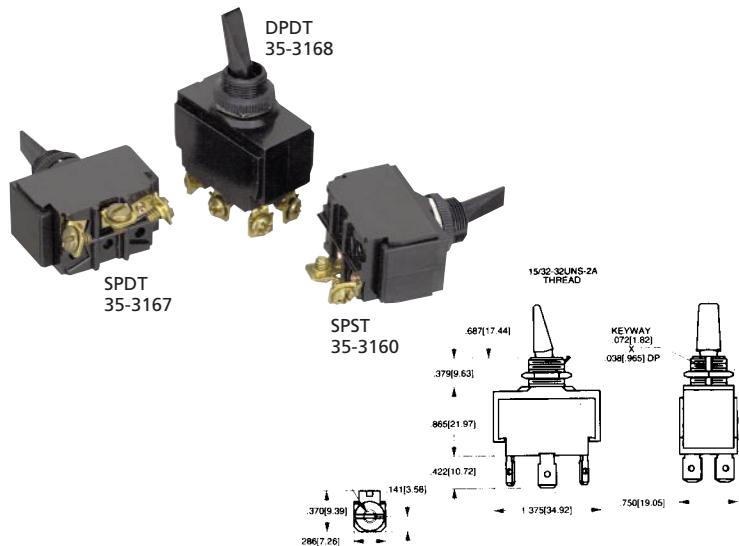
Specifications:
Current Rating: 16A-12V DC
Initial Contact Resistance: 5 Milliohms (max.)
Insulation Resistance: 100 Megohms
Dielectric Strength: 1500V AC (min.)
Contact Material: Silver – Silver plated
Terminal Material: Silver – Silver plated
Terminal Type: 1/4" Quick Connect & Solder
Mounting Hole: 0.500"
Lamp: 12V, 55MA, 10,000 Hour Average Life
Hardware: Black Hex nut, Nickel Lock nut

TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Red	35-090
SPST	ON	OFF	Green	35-092
SPST	ON	OFF	Amber	35-094

Lighted Toggle Switch

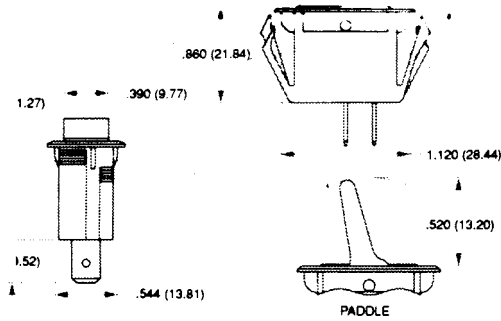
Specifications:
Current Rating: 15A-125V AC, 10A-250V AC, 3/4HP 125-250V AC
Red-Green positions/12V lamp
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Copper
Terminal Material: Copper
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.500"
Hardware: Black Face nut, Brass Hex nut

TYPE	ACTION		ACTUATOR	CAT. NO.
SPST	ON	OFF	Polycarbonate	35-3140





35-3008



Paddle Switch (Black)

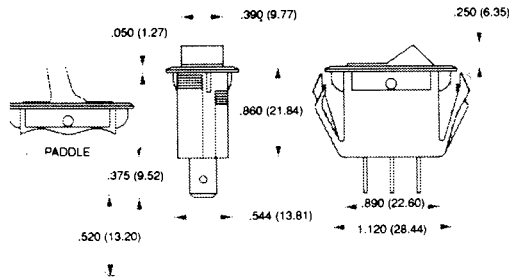


Specifications:
Current Rating: 15A-125V AC, 10A-250V AC, 3/4 H.P. 125-250V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper
Terminal Material: Copper
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.55" x 1.125"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Nylon	35-3008



SPST



Lighted Paddle Switches



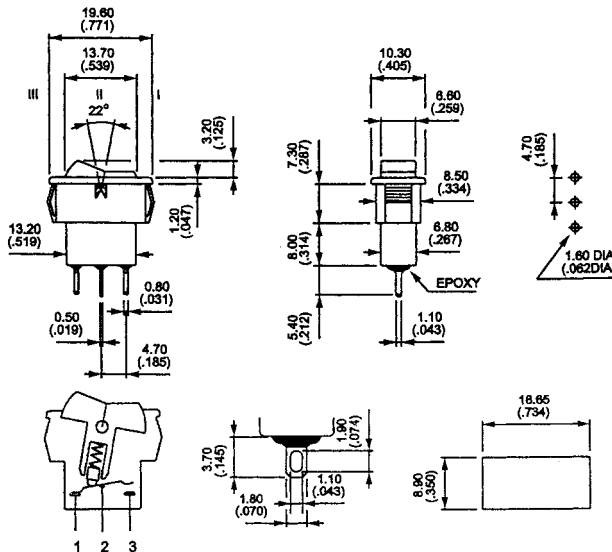
Specifications:
Current Rating: 15A-125V AC, 10A-250V AC, 3/4 H.P. 125-250V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper
Terminal Material: Copper
Temperature Rating: Not to exceed 85°C
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 50,000 cycles (min.)
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.55" x 1.125"
Lamp: 125 V Neon

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST (Amber)	ON OFF	Nylon	35-3091
SPST (Red)	ON OFF	Nylon	35-3092

ROCKER SWITCHES



SPDT



Miniature Snap-In Rocker Switches



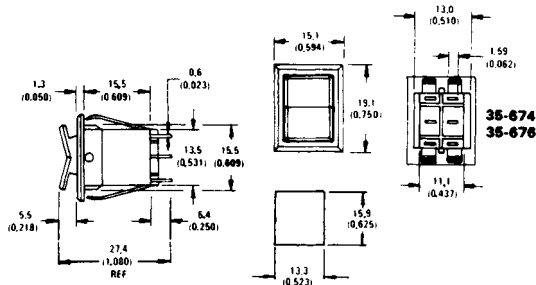
Specifications:
Current Rating: 4A-125V AC, 2A-250V AC
Initial Contact Resistance: 10m Ohms (max.)
Insulation Resistance: 10,000 Megohms (min.)
Dielectric Strength: 1,000V RMS at 50Hz between contacts. 4,000V RMS at 50Hz between terminals and panel (metal)
Contact Material: Silver
Terminal Material: Gold Plated Silver
Temperature Rating: -40°C to +85°C
Electrical Life: 50,000 cycles
Terminal Type: Solder
Mounting Hole: 0.35" x 0.734"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON ON	Black Plastic	35-602
SPDT	ON (ON)	Black Plastic	35-603
SPDT	ON OFF ON	Black Plastic	35-604

No. SPECIAL NOTE: () = Momentary Function



DPDT



Miniature Snap-In Rocker Switches

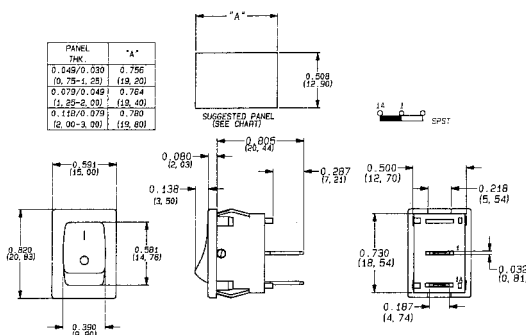


Specifications:
Current Rating: 8A-125V AC, 4A-250V AC
Initial Contact Resistance: 10 Milliohms (max.) @ 2-4V DC
Insulation Resistance: 1000 MegW (min.)
Dielectric Strength: 2500V AC RMS
Contact Material: Silver Plated Copper Alloy
Terminal Material: Silver Plated Copper Alloy
Terminal Type: Solder
Mounting Hole: 0.625" x 0.523"

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON	ON	Red P/Lastic 35-674
DPDT	ON OFF	ON	Red P/Lastic 35-676



SPST



Miniature Power Rocker Switch

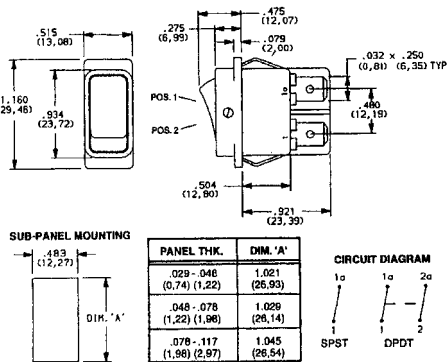


Specifications:
Current Rating: 10A-125V AC, 5A-250V AC
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Copper or Brass - Silver plated
Terminal Material: Copper or Brass - Silver plated
Electrical Life: 10,000
Mechanical Life: 100,000
Terminal Type: Quick Connect/socket
Mounting Hole: 0.508"x0.755"
Legend: O/I

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON	OFF	Black P/Lastic 35-642



35-643



Miniature Power Rocker Switch

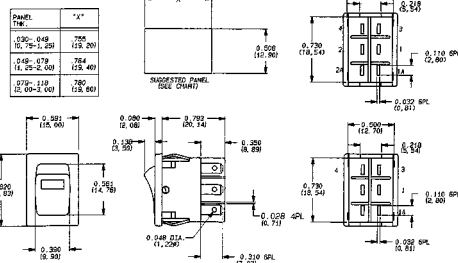


Specifications:
Current Rating: 16A-125/250V AC; 1/4HP@125V AC; 1/2HP@250V AC
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Coin Silver - Silver plated
Terminal Material: Copper - Silver plate
Electrical Life: 10,000 cycles
Mechanical Life: 100,000 cycles
Terminal Type: Quick Connect
Mounting Hole: 0.488"x1.031"
Legend: O/I

TYPE	ACTION	ACTUATOR	CAT. NO.
DPST	ON	OFF	Black P/Lastic 35-643
DPST	ON	OFF	White P/Lastic 35-3705



DPST



Lighted Miniature Power Rocker Switch



Specifications:
Current Rating: 10A-125V AC, 5A-250V AC
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Coin Silver – Silver plate
Terminal Material: Copper or Brass – Silver plated
Electrical Life: 10,000 cycles
Mechanical Life: 100,000 cycles
Terminal Type: Solder
Lamp: L.E.D.
Mounting Hole: 0.755" x 0.508"

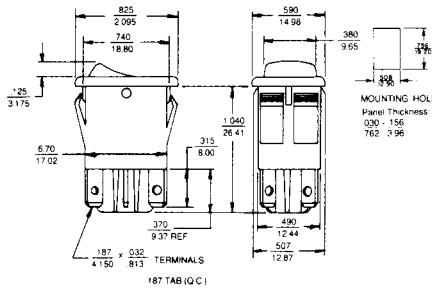
TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Red L.E.D. in Black Plastic	35-645
DPST	ON OFF	Red L.E.D. in Black Plastic	35-646



DPDT
35-606



SPST
35-605



Miniature Rocker Switches



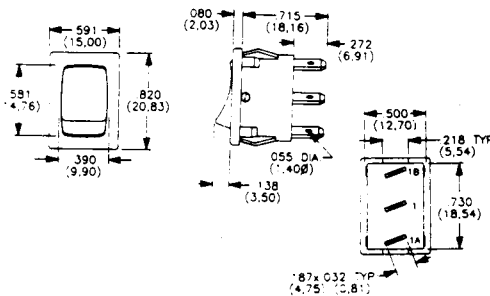
Specifications:
Current Rating: 8A-125V AC, 4A-250V AC
Initial Contact Resistance: 5 Megohms
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Gold Plate over Nickel plate
Terminal Material: Brass – Silver plated
Terminal Typ: 0.187 Quick Connect
Mounting Hole: .508 x .756
Legend: OII (Red) 35-605

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Black P.Lastic	35-605
DPDT	ON ON	Black P.Lastic	35-606
SPST	ON OFF	Black P.Lastic	35-607†
DPST	ON OFF	Black P.Lastic	35-608
SPDT	ON ON	Black P.Lastic	35-609

†35-607 11A 125VAC



35-615

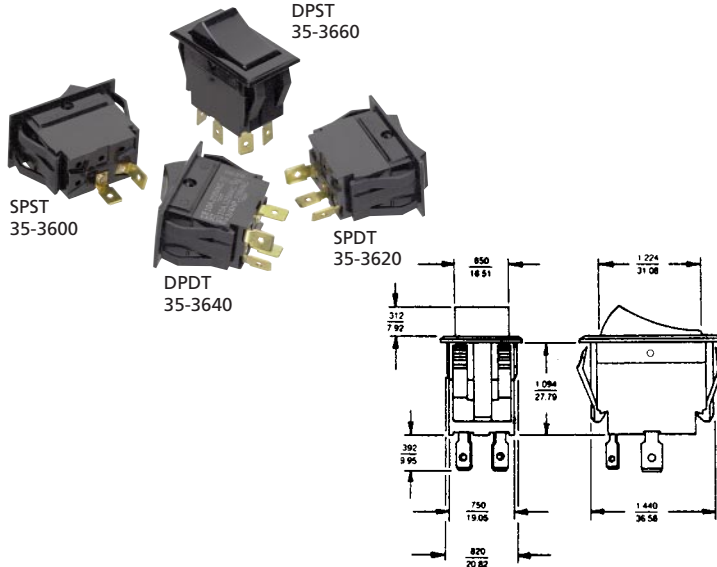


Miniature Rocker Switch



Specifications:
Current Rating: 4A-125V AC, 2A-250V AC
Insulation Resistance: 10(9) Ohms
Dielectric Strength: 1,000 V RMS (min.)
Electrical Life: 10,000 cycles (min.)
Mechanical Life: 100,000 Cycles (min.)
Contact Material: Copper – Silver plated
Terminal Material: Copper
Terminal Type: Quick Connect

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON ON	Black P.Lastic	35-615



Rocker Switches



Specifications:

Current Rating: 15A-125V AC, 10A-250V AC, 3/4 H.P. 125-250V AC

Insulation Resistance: 100 Megohms (min.)

Dielectric Strength: 1000V AC (min.)

Contact Material: Fine Silver

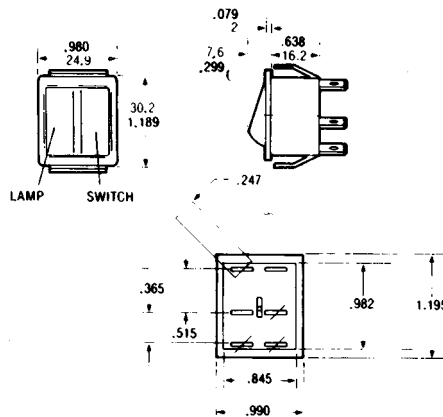
Terminal Material: Brass

Terminal Type: 0.250" Quick Connect

Mounting Hole: 0.830" x 1.450"

TYPE	ACTION			ACTUATOR	CAT. NO.
SPST	ON	OFF		Nylon	35-3600
SPDT	ON	ON		Nylon	35-3610
SPDT	ON	OFF	ON	Nylon	35-3620
DPST	ON	OFF		Nylon	35-3630
DPDT	ON	ON		Nylon	35-3640
DPDT	ON	OFF	ON	Nylon	35-3650
DPST	(ON)	OFF		Nylon	35-3660
DPDT	(ON)	ON		Nylon	35-3680
DPDT	(ON)	OFF	ON	Nylon	35-3690
DPDT	(ON)	OFF	(ON)	Nylon	35-3695
DPST	(OFF)	ON		Nylon	35-3670

SPECIAL NOTE: () = Momentary Function



Lighted Snap-In Rocker Switch



Specifications:

Current Rating: 16A-125/250V AC

Initial Contact Resistance: 10 Milliohms

Insulation Resistance: 20 Megohms (min.)

Dielectric Strength: 1000V RMS

Contact Material: Fine Silver

Terminal Material: Brass - Silver plated

Terminal Type: Combination 1/4" Quick Connect & Solder

Mounting Hole: 0.875" x 1.150"

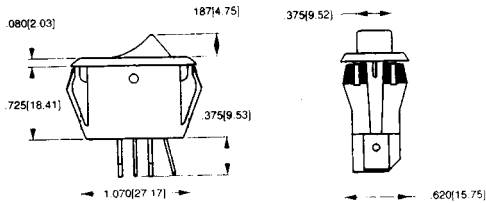
Lamp Color: Red

Lamp Neon Voltage: 2A-105V-130V AC

TYPE	ACTION			ACTUATOR	CAT. NO.
SPST	ON	OFF		Black Plastic w/Red Lens	35-621



35-660



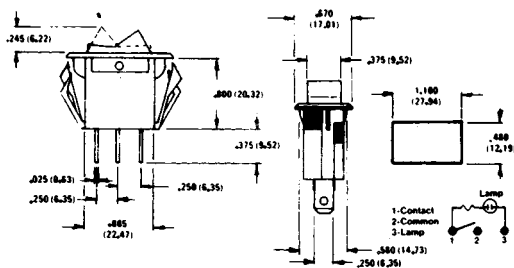
DC Lighted Std. Size Snap-In Rocker Switch

Specifications:
Current Rating: 10A @ 30V DC
Initial Contact Resistance: 5 Milliohms (max.)
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1500V AC (min.)
Contact Material: Silver
Terminal Material: Brass – Silver plate
Terminal Type: Combination 1/4" Quick Connect and Solder
Lamp: 12V Incandescent Lamp
Mounting Hole: 0.550" x 1.125"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Lighted Red Lens	35-660



35-689



Lighted Snap-In Rocker Switch



Specifications:
Current Rating: 15A-125V AC, 10A-250V AC
Initial Contact Resistance: 50 Milliohms (max.)
Insulation Resistance: 100 Milliohms (min.)
Dielectric Strength: 1000V AC
Contact Material: Copper Alloy
Terminal Material: Copper
Terminal Type: Combination 1/4" Quick Connect/Solder Lug
Lamp: 125V AC Neon Lamp

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Red Translucent Rocker	35-689

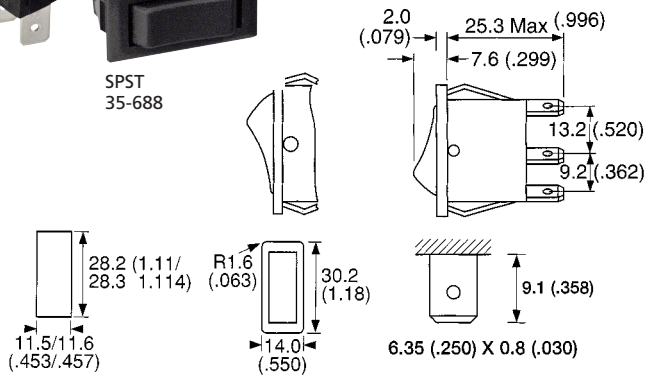
NOTE: Built in resistor



SPDT
35-695



SPST
35-688



Panel Thickness .75-2.5 (.029-.098)

Standard Size Snap-In Rockers/Lighted/Unlighted



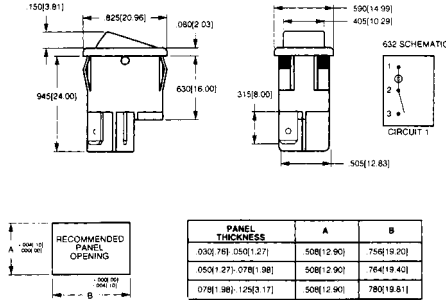
Specifications:
Current Rating: 16A-125/250V AC, 1 H.P. 250V AC (35-640/35-695); others 15A-125 250V AC, 1/2 H.P. 125V AC, 1 H.P. 250V AC
Initial Contact Resistance: 5 Milliohms (max.)
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1500V AC (min.)
Contact Material: Silver
Terminal Material: Brass – Silver plated
Terminal Type: Combination 1/4" Quick Connect/Solder
Lamp: 35-688: 105-130V AC Neon; 35-662, 35-664, 12V Incandescent
Mounting Hole: 0.453" x 1.110" 35-695: 0.55" x 1.12"; 35-640: 1.11 x .453

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON ON	Black Plastic	35-640
SPST	ON OFF	Lighted Red Lens	35-688
SPST	ON OFF	Lighted Amber Lens	35-662
SPST	ON OFF	Lighted Green Lens	35-664
SPDT	(ON) OFF (ON)	Black Plastic	35-695

SPECIAL NOTE: () = Momentary Function



35-696



Lighted Rocker Switch

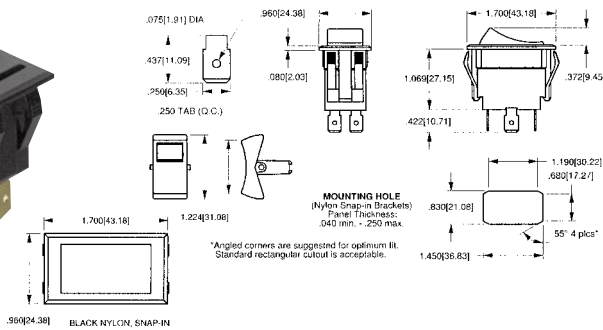


Specifications:
Current Rating: 12A-125V AC 1/2 H.P. 125V AC
Insulation Resistance: 50 Megohms (min.)
Dielectric Strength: 1500V AC (min.)
Contact Material: Silver
Terminal Material: Brass
Terminal Type: 0.187" Quick Connect
Mounting Hole: 0.50"
Lamp Rating: 125V Neon

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Red Translucent Rocker	35-696



35-656



Lighted Rocker Switch

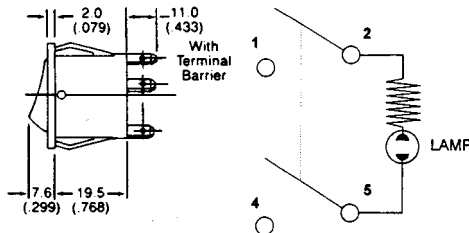


Specifications:
Current Rating: 15A-125V AC, 10A-250V AC, 1/2 H.P. 125/250V AC
Initial Contact Resistance: 5 Megohms
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Silver
Terminal Material: Brass - Silver plated
Terminal Type: 0.250 Quick Connect
Mounting Hole: 1.45" x 0.830"
Light Rating: 0.002A 125V AC

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Black Plastic	35-656



35-686



Lighted Rocker Switch

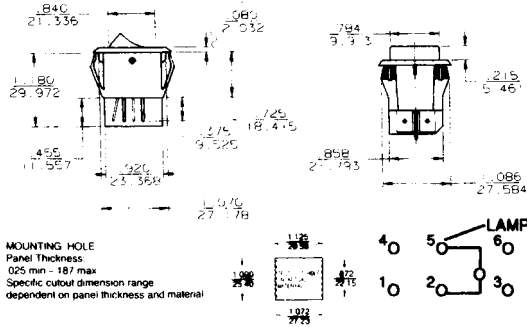


Specifications:
Current Rating: 20A-125/250V AC, 1/2 H.P. 125V AC, 1 H.P. 250V AC
Initial Contact Resistance: 5 Megohms
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Silver
Terminal Material: Brass - Silver plated
Terminal Type: 0.250 Quick Connect
Mounting Hole: 1.18" x 0.870"
Light Rating: 0.002A 105-125V AC Red Neon

TYPE	ACTION	ACTUATOR	CAT. NO.
DPST	ON OFF	Black Plastic	35-686



DPST



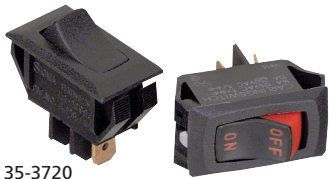
Lighted/Non-Lighted Rocker Switches



Specifications:
Current Rating: 20A-125V AC, 15A-250V AC
Initial Contact Resistance: 5 Megohms
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Silver
Terminal Material: Brass – Silver plate
Mounting Hole: 1" x 1.250"
Terminal Type: 0.250 Quick Connect

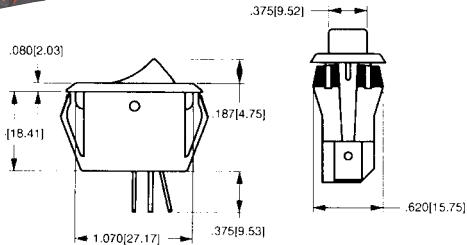
TYPE	ACTION	ACTUATOR	CAT. NO.
DPST	ON OFF	Black Plastic	35-654
DPST	ON OFF	Red Plastic	35-655

No.35-655 - Lighted 125V Neon



35-3720

35-3030



Curved Rocker Switches

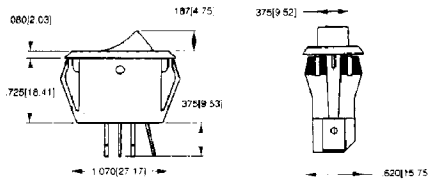


Specifications:
Current Rating 35-3030, 35-3710: 16A-125V AC, 10A-250V AC,
Current Rating 35-3720: 16A-125V AC, 12A-250V AC
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V AC (min.)
Contact Material: Copper
Terminal Material: Copper
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.555" x 1.125"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST (Imprinted)	ON OFF	Nylon	35-3030
SPST	ON OFF	Nylon	35-3710
SPDT	ON ON	Nylon	35-3720



SPST



Lighted Curved Rocker Switches

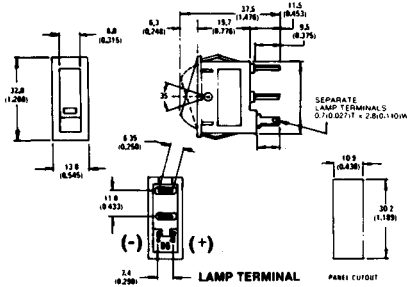


Specifications:
Current Rating: 16A-125V AC, 8A-250V AC (35-3740);
 15A-125VAC, 7.5A-250VAC (35-3730/35-3750)
Insulation Resistance: 100 Megohms
Lamp Voltage: 125V Neon
Dielectric Strength: 1000V AC (min.)
Contact Material: Copper
Terminal Material: Copper
Terminal Type: 0.250 Quick Connect
Mounting Hole: 0.55" x 1.125"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST (Transparent Amber)	ON OFF	Nylon	35-3730
SPST (Transparent Red)	ON OFF	Nylon	35-3740
SPST (Translucent Green)	ON OFF	Nylon	35-3750



35-684



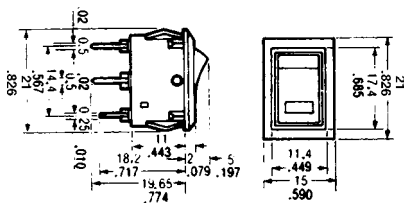
Rocker Switch with LED

Specifications:
Current Rating: 10A-125V AC
Initial Contact Resistance: 5 Milliohms (max.)
Insulation Resistance: 2.5V DC @ 20 Megohms
Dielectric Strength: 500V DC, 100 Milliohms
Contact Material: Silver
Terminal Material: Silver plate
Terminal Type: Solder
Lamp: L.E.D. (requires external resistor & diode if operated on A/C)
Mounting Hole: 0.430" x 1.189"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Red L.E.D. In White Plastic	35-684



SPST



Rocker Switches with LED



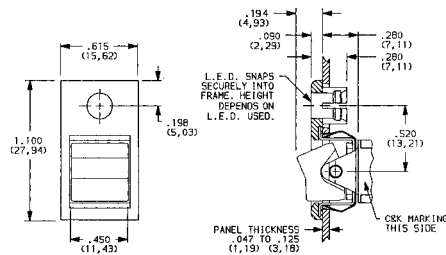
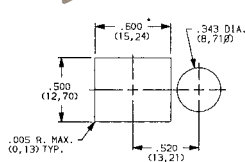
Specifications:
Current Rating: 5A-125V AC, 3A-250V AC
Initial Contact Resistance: 100 Milliohms @ 2.5V DC 1A
Insulation Resistance: 500 Megohms @ 500V DC 1 Minute
Dielectric Strength: 2000V AC 1 Minute
Contact Material: Copper with Rivet-Type Silver Contact
Terminal Material: Outer: Copper Silver Plated Center: Brass Silver Plated
Terminal Type: Combination 3/16 Quick Connect and Solder
Mounting Hole: 0.512" x 0.750"
L.E.D. Color: 35-680 – Orange; 35-681 – Green; 35-682 – Red

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Orange L.E.D. In Black Plastic	35-680
SPST	ON OFF	Green L.E.D. In Black Plastic	35-681
SPST	ON OFF	Red L.E.D. In Black Plastic	35-682

NOTE: A resistor is required in series with pilot lamp for use on DC. Diode is also required for AC use. For resistor and diode ratings see chart inserted in package.



35-3700



Rocker Switch for use w/LED



Specifications:
Current Rating: 5A-120V AC, 2A-250V AC, 5A-28VDC
Initial Contact Resistance: 10 Milliohms or less @ 2-4V DC
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper Alloy – Silver plated
Terminal Material: Copper Alloy – Silver plated
Temperature Rating: -30°C to 85°C
Electrical Life: 100,000 cycles
Connected Terminals: Position 1: 2-3 Position 2: 2-1 Snap-in Front Panel Mount
Mounting Hole: 0.620/0.625

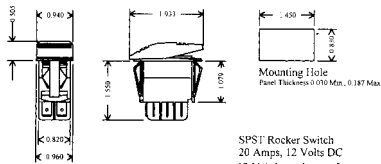
TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON ON	Black Plastic.	35-3700

SPECIAL NOTE: LED Not Included



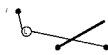
DPDT
35-3530

SPST
35-3500

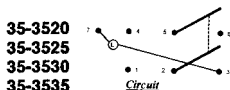


SPST Rocker Switch
20 Amps, 12 Volts DC
12 Volt Incandescent Lamp
Amber Lens

- 35-3500
- 35-3505
- 35-3510
- 35-3515
- 35-3540
- 35-3545
- 35-3550
- 35-3555



Circuit



Circuit

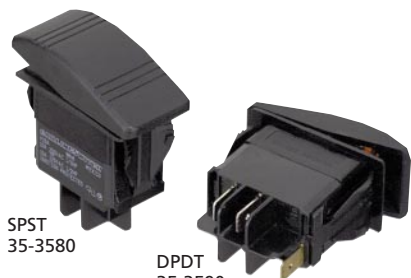
- 35-3520
- 35-3525
- 35-3530
- 35-3535
- 35-3560
- 35-3565
- 35-3570
- 35-3575

Sealed Automotive/Marine Rocker Switches

Specifications:
Current Rating: 20A-12V DC
Insulation Resistance: 50 Megohms
Dielectric Strength: 2000V RMS
Contact Material: Silver
Terminal Material: Brass
Terminal Type: 1/4" Quick Connect
Mounting Hole: 0.830" x 1.450"
Lamps: Incandescent Light 12V

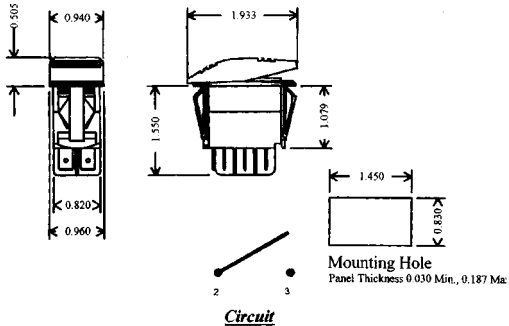
TYPE	ACTION			ACTUATOR	CAT. NO.
SPST	ON	OFF		Amber Nylon	35-3500
SPST	ON	OFF		Green Nylon	35-3505
SPST	ON	OFF		Red Nylon	35-3510
SPST	ON	OFF		Blue Nylon	35-3515
DPDT	ON	OFF	ON	Amber Nylon	35-3520
DPDT	ON	OFF	ON	Green Nylon	35-3525
DPDT	ON	OFF	ON	Red Nylon	35-3530
DPDT	ON	OFF	ON	Blue Nylon	35-3535
SPST	(ON)	OFF		Amber Nylon	35-3540
SPST	(ON)	OFF		Green Nylon	35-3545
SPST	(ON)	OFF		Red Nylon	35-3550
SPST	(ON)	OFF		Blue Nylon	35-3555
DPDT	(ON)	OFF	(ON)	Amber Nylon	35-3560
DPDT	(ON)	OFF	(ON)	Green Nylon	35-3565
DPDT	(ON)	OFF	(ON)	Red Nylon	35-3570
DPDT	(ON)	OFF	(ON)	Blue Nylon	35-3575

SPECIAL NOTE: () = Momentary Function Sealed against spray and submersion
 Replacement Gasket # 999-16543-001



SPST
35-3580

DPDT
35-3590



Mounting Hole
Panel Thickness 0.030 Min., 0.187 Ma

Circuit

Sealed Rocker Switches

Specifications:
Current Rating: 15A-125V AC, 10A-250V AC 1/2 H.P. 125-250V AC
 20A-12V DC on 35-3585, 35-3590
Insulation Resistance: 50 Megohms
Dielectric Strength: 2000V RMS
Contact Material: Silver
Terminal Material: Brass
Terminal Type: 1/4" Quick Connect
Mounting Hole: 0.830" x 1.450"

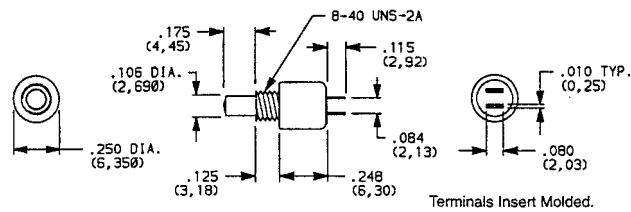
TYPE	ACTION			ACTUATOR	CAT. NO.
SPST	ON	OFF		Nylon	35-3580
DPDT	ON	ON		Nylon	35-3585
DPDT	ON	OFF	ON	Nylon	35-3590

Replacement Gasket # 999-16543-001

PUSHBUTTON SWITCHES



35-400



Sub-Miniature Pushbutton Switch

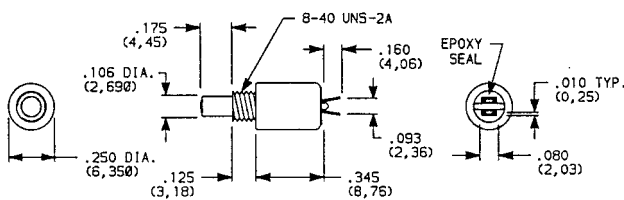


Specifications:
Current Rating: 1/2A-120V AC, 1/4A-250V AC
Initial Contact Resistance: 30 Milliohms (max.) @ 2-4V DC
Insulation Resistance: 10(9) Ohms
Dielectric Strength: 500V AC RMS
Contact Material: Coin Silver – Silver plate
Terminal Material: Copper Alloy – Silver plate
Temperature Rating: -30°C to +65°C
Electrical Life: 250,000 cycles
Terminal Type: Solder
Mounting Hole: 0.172"
Hardware: Mounting Nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	N.O. = Off – On	Black Plastic	35-400



35-402



Sub-Miniature Pushbutton Switch

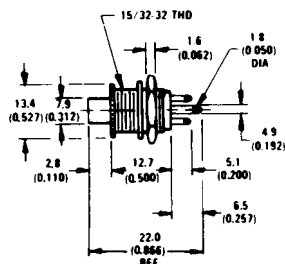


Specifications:
Current Rating: 1/4A-120V AC or 28V DC
Initial Contact Resistance: 30 Milliohms (max.) @ 2-4V DC
Insulation Resistance: 10(9) Ohms
Dielectric Strength: 500V AC RMS
Contact Material: Coin Silver
Terminal Material: Coin Silver
Temperature Rating: -30°C to +65°C
Electrical Life: 250,000 cycles
Terminal Type: Solder
Mounting Hole: 0.172"
Hardware: Mounting Nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	N.C. = On – Off	Black Plastic	35-402



35-416



Miniature Pushbutton Switch

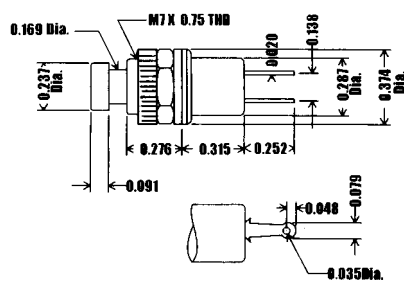


Specifications:
Current Rating: 250mA, 30W (max.) AC
Initial Contact Resistance: 50 Milliohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 500V AC
Contact Material: Nickel – Silver plated
Terminal Material: Brass – Silver plate
Terminal Type: Solder
Mounting Hole: 0.469"
Hardware: Locknut, Lockwasher, Hex nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	N.C. Momentary = On – (Off)	Red Button	35-416



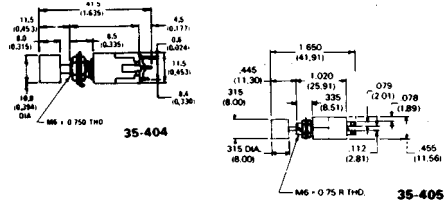
35-410



Miniature Pushbutton Switch

Specifications:
Current Rating: 1A-125V AC
Initial Contact Resistance: 10 Milliohms (max.) @ 2.5V DC 1A
Insulation Resistance: 100 Megohms (min.) 500V DC
Dielectric Strength: 1000V AC 1 Minute
Contact Material: Brass – Silver plated
Terminal Material: Brass – Silver plated
Electrical Life: 20,000 cycles
Terminal Type: Solder
Mounting Hole: 0.281
Hardware: Hex nut, Knurl nut

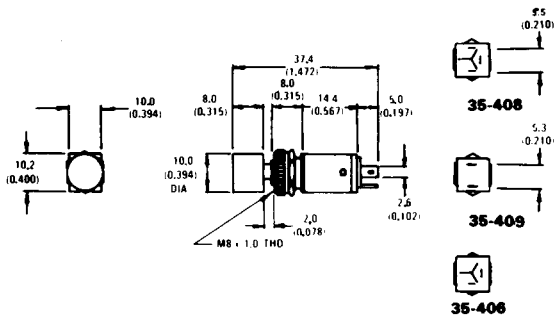
TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	N.O. Momentary = Off – (On)	Red Button	35-410
SPST	N.O. Momentary = Off – (On)	Black Button	35-401
SPST	N.O. Momentary = Off – (On)	Green Button	35-403



Miniature Pushbutton Switches

Specifications:
Current Rating: 3A-125V AC
Initial Contact Resistance: 2.5V DC, 1A, 20 Milliohms or Less
Insulation Resistance: 500V DC, 100 Megohms or More
Dielectric Strength: 1000V AC, 1 Minute
Contact Material: Silver
Terminal Material: Copper Alloy – Silver plated
Terminal Type: Solder
Mounting Hole: 0.250"
Hardware: Hex nut, Washer, Knurl nut

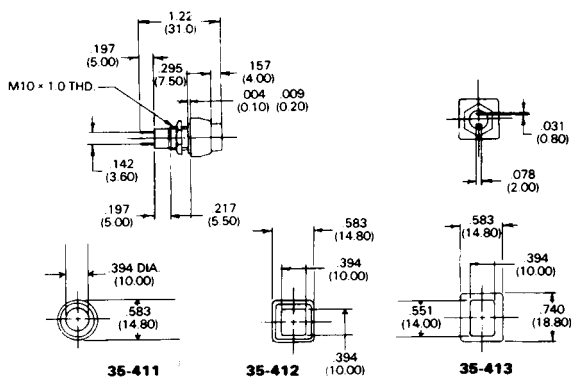
TYPE	ACTION	ACTUATOR	CAT. NO.	
SPDT	Push-On	Push-On	Black Button	35-404
DPDT	Push-On	Push-On	Black Button	35-405



Miniature Pushbutton Switches

Specifications:
Current Rating: 3A-125V AC
Initial Contact Resistance: 2.5V DC @ 1A-20 Milliohms
Insulation Resistance: 500V DC, 100 Megohms
Dielectric Strength: 1000V DC
Contact Material: Silver Plated Copper Alloy
Terminal Material: Silver Plated Copper Alloy
Terminal Type: Solder
Mounting Hole: 0.343"
Hardware: Hex nut, Washer

TYPE	ACTION	ACTUATOR	CAT. NO.	
SPST	Push-On	Push-Off	Black Button	35-406
SPDT	Push-On	Push-On	Black Button	35-408
SPST	N.O. Momentary Off – (On)	Black Button		35-409



Miniature Pushbutton Switches (Round/Square/Rectangular)

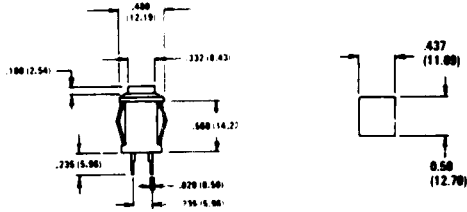
Specifications:
Current Rating: 3A-125V AC, 1A-250V AC
Initial Contact Resistance: 20 Milliohms or Less
Insulation Resistance: 100 Megohms
Dielectric Strength: 1500V AC 1 Minute
Contact Material: Copper – Silver plated
Terminal Material: Copper – Silver plated
Terminal Type: Solder
Mounting Hole: 0.431"
Hardware: Hex nut, Washer

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Normally Open Momentary	Round Black Button	35-411
SPST	Normally Open Momentary	Square Black Button	35-412
SPST	Normally Open Momentary	Rectangular Black Button	35-413
SPST	Normally Open Momentary	Rectangular Red Button	35-417

NOTE: Normally Open = OFF(ON)



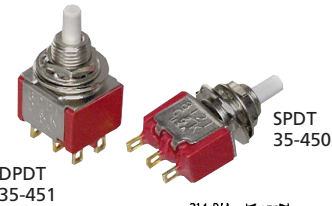
35-415



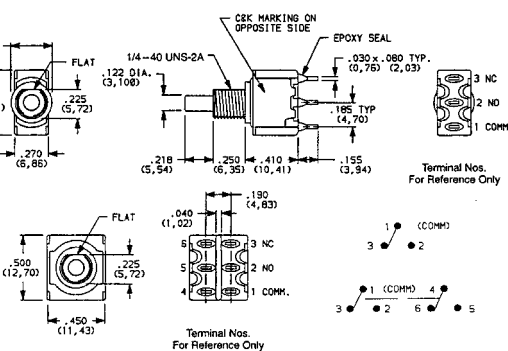
Miniature Pushbutton Switch

Specifications:
Current Rating: 1A-125V AC, 0.5A-250V AC
Initial Contact Resistance: 2.5V DC, 1A, 20 Milliohms or Less
Insulation Resistance: 500V DC, 100 Milliohms or More
Dielectric Strength: 1500V AC 1 Minute
Contact Material: Silver
Terminal Material: Silver Plated Copper Alloy
Terminal Type: Solder or Q.C. .187"
Mounting Hole: 0.500" x 0.437"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	N.O. Momentary Off – (On)	Square Red Button	35-415
SPST	N.O. Momentary Off – (On)	Square White Button	35-407



DPDT
35-451



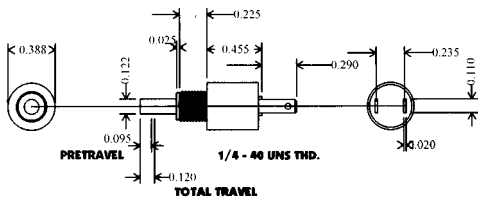
Miniature Snap Action Pushbutton Switches

Specifications:
Current Rating: 1A-120V AC or 28V DC
Initial Contact Resistance: 50 Milliohms (max.) @ 2-4V DC
Insulation Resistance: 10 (9) Ohms (min.)
Dielectric Strength: 1000V AC RMS
Contact Material: Silver – Gold plate
Terminal Material: Copper – Gold over Nickel plate
Temperature Rating: -30°C to +75°C
Electrical Life: 60,000 cycles
Terminal Type: Solder
Mounting Hole: 0.250"
Hardware: 2 Hex nuts, Lockwasher, Lockring

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	Snap Action N.C. Momentary	White Plastic	35-450
DPDT	Snap Action N.C. Momentary	White Plastic	35-451



35-3459



Pushbutton Switch



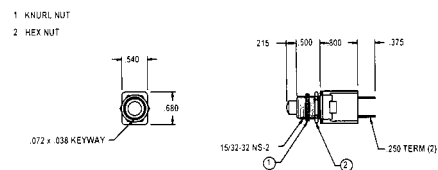
Specifications:
Current Rating: 1/4A-125V AC/DC
Initial Rating Resistance: 30 Milliohms @ 2-4V DC
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Bronze or Silver
Terminal Material: Copper – Silver plated
Temperature Rating: -30°C to +85°C
Electrical Life: 10,000 cycles
Terminal Type: Solder
Mounting Hole: 0.250"
Hardware: Mounting nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST N.O.	OFF (ON)	Nylon	35-3459

SPECIAL NOTE: () = Momentary Function



35-3470



Pushbutton Switch



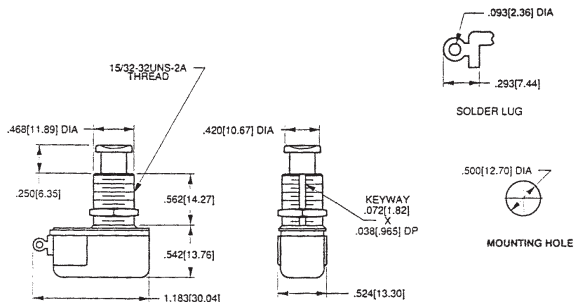
Specifications:
Current Rating: 2A-120V AC, 1A-277V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper
Terminal Material: Copper
Terminal Type: Quick Connect
Mounting Hole: 0.500"
Hardware: Mounting Nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST N.C.	(OFF) ON	Nylon	35-3470

SPECIAL NOTE: () = Momentary Function



SPST

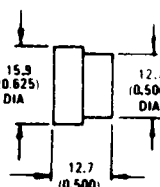


Standard Size Metal Pushbutton Switches



Specifications:
Current Rating: 6A-125V AC/3A-250V AC
Initial Contact Resistance: 3-10 Milliohms
Insulation Resistance: 200 Megohms (min.)
Dielectric Strength: 1200V AC
Contact Material: Silver Plated Copper Alloy
Terminal Material: Silver Plated Copper Alloy
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: Hex nut, Knurled nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	N.O. Momentary Off – (On)	Metal Plunger	35-430
SPST	N.C. Momentary On – (Off)	Metal Plunger	35-432



NOTE: 35-437-BU Red
 35-438-BU Black

Pushbutton Caps

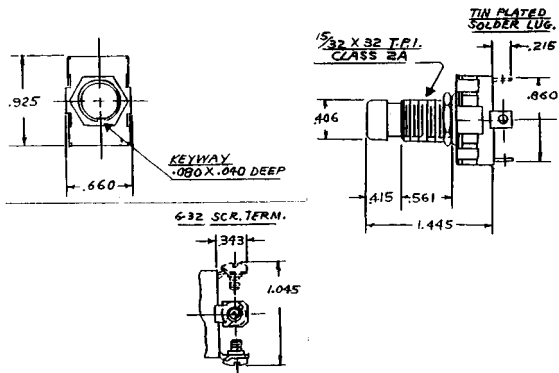
Snap-on thermoset plastic caps for standard pushbutton switches. Provides attractive front-of panel appearance, aids identification and also serves as a button shroud.

I.D.	COLOR	MATERIAL	CAT. NO.
.340"	1-each Red & Black	Thermoset Plastic	35-436

Note: For use with Cat. No. 35-430 and 35-432.
 Note: to order RED only 35-437-BU to order Black only 35-438-BU



35-449



Standard Size Metal Pushbutton Switches

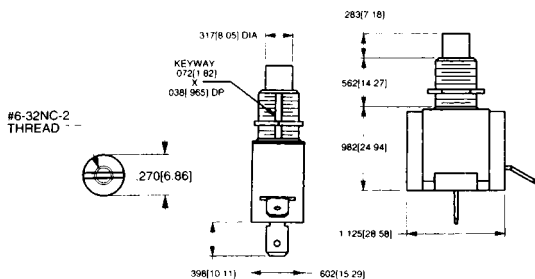


Specifications:
Current Rating: 6A-125V, 3A-250V AC
Initial Contact Resistance: 3-10 Milliohms
Insulation Resistance: 200 Megaohms (min.)
Dielectric Strength: 1200V AC
Contact Material: Bronze – Silver plated
Terminal Material: Bronze – Silver plated
Terminal Type: Solder (35-448) Screw (35-449)
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl nut, Screws on (35-449)

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Push-On Push-Off	Metal Plunger	35-448
SPST	Push-On Push-Off	Metal Plunger	35-449



35-458



Standard Size Metal Pushbutton Switch

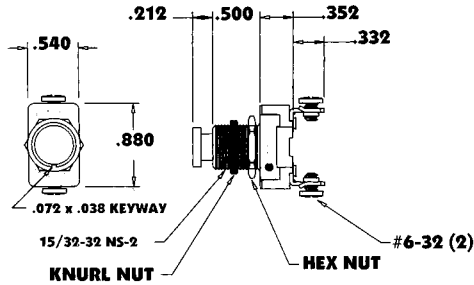


Specifications:
Current Rating: 15A-125V AC, 10A-250V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V (min.)
Contact Material: Silver
Terminal Material: Nickel plated Brass
Terminal Type: Screw
Mounting Hole: 0.50"
Hardware: Hex nut, Knurled nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Metal	35-458



35-3457



Momentary Pushbutton Switches



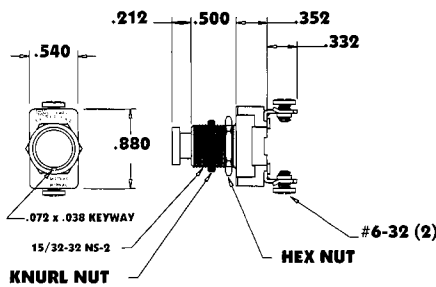
Specifications:
Current Rating: 6A-120V AC, 3A-240V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V (min.)
Contact Material: Copper Alloy
Terminal Material: Copper Alloy & Brass
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Hex nut, Knurled nut & Screws

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST N.O.	OFF (ON)	Black	35-3457

SPECIAL NOTE: () = Momentary Function



35-3458



Momentary Pushbutton Switches



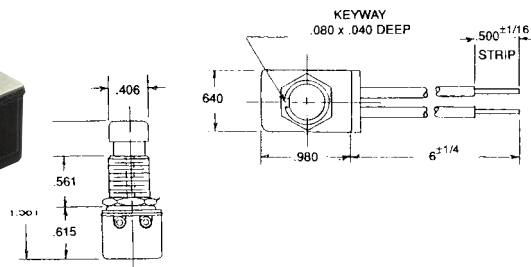
Specifications:
Current Rating: 3A-120V AC, 1.5A-277V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V (min.)
Contact Material: Copper Alloy
Terminal Material: Brass
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Hex nut, Knurled nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST N.C.	(OFF) ON	Red	35-3458

SPECIAL NOTE: () = Momentary Function



35-3454



Utility AC/DC Pushbutton Switch

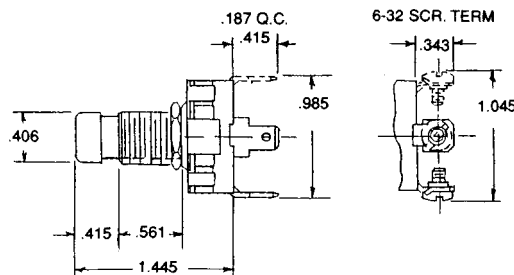


Specifications:
Current Rating: 10A-125V AC, 4A-250V AC/DC, 8A-125V AC/DC, 1/3 H.P. 125V AC
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper Alloy
Terminal Material: Brass
Terminal Type: 6" Wire Leads
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Push-On Push-Off	Metal Plunger	35-3454



SPST



Utility AC Pushbutton Switches



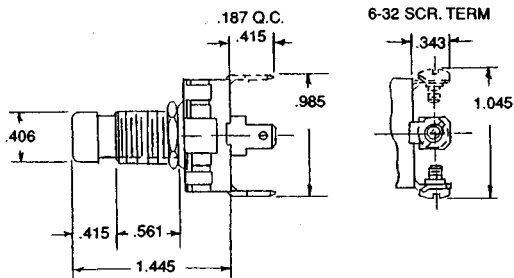
Specifications:
Current Rating: 15A-125V AC, 10A-250 AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper Alloy
Terminal Material: Brass
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: Hex nut, Knurl nut, Binding head screws

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Push-On Push-Off	Chrome Metal	35-3425
SPST N.O.	OFF (ON)	Chrome Metal	35-3427
SPST N.C.	ON (OFF)	Chrome Metal	35-3429

SPECIAL NOTE: () = Momentary Function



35-3490



Heavy Duty AC Pushbutton Switch

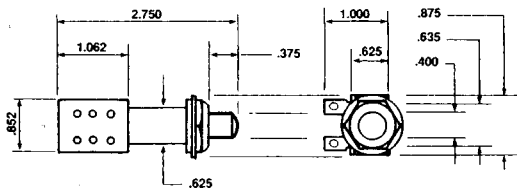


Specifications:
Current Rating: 15A-125V AC, 10A-250V AC
Insulation Resistance: 100 Megohms 21A 14.5V DC
Dielectric Strength: 1000V RMS (min.)
Contact Material: Copper Alloy
Terminal Material: Brass
Terminal Type: Screw
Mounting Hole: 0.500"
Hardware: 2 nuts, Screws

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	Push-On Push-Off		35-3490



35-3484



Auto/Marine Insulated Push Button Starter & Horn Switch

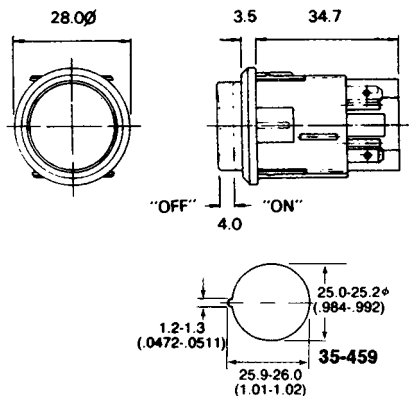
Specifications:
Current Rating: 25A-6V DC, 15A-12V DC
Mounting Bushing: 1-1/4" L x 5/8" Diameter
Overall Length: 2-7/8" Stainless Steel Springs
Terminal Type: Screw
Mounting Hole: 0.641"
Hardware: Nut, Washer

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST N.O.	OFF (ON)	Black Chrome	35-3484

SPECIAL NOTE: () = Momentary Function



SPST



Large Round Pushbutton Switches

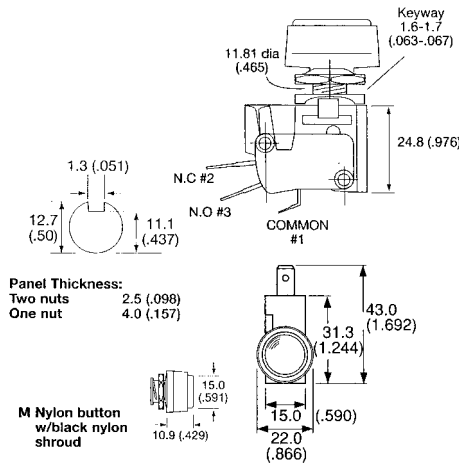


Specifications:
Current Rating: 16A-125/250V AC
Initial Contact Resistance: 5 Milliohms
Insulation Resistance: 100 Megohms
Dielectric Strength: 1500V AC
Contact Material: Silver
Terminal Material: Brass – Silver plated
Electrical Life: 10,000 cycles
Mechanical Life: 750,000 cycles
Terminal Type: Combination 1/4" Quick Connect and Solder
Mounting Hole: 1.02"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Push-On Push-Off	Red Plastic	35-455
SPST	Normally Open Momentary	Red Plastic	35-457
SPST	Normally Open Momentary	Black Plastic	35-459



35-473



NO or NC Round Pushbutton Snap Action Switch-RED Button

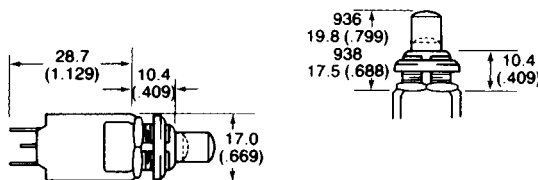
Specifications:
Current Rating: 15A-125I/250V AC, 1/2HP 250V AC
Initial Contact Resistance: 10 Milliohms or less
Insulation Resistance: 100 Megohms (min.) @ 500 VDC
Dielectric Strength: 1650V AC (min.)
Contact Material: Silver
Terminal Material: Copper – Silver plated
Mounting Hole: .500
Terminal Type: .250 quick connect
Mechanical Life: 1 million operations
Hardware: 1 Nylon Hex nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	N.O. or N.C. (Momentary)	Red w/Black Shroud	35-473

Using common terminal, snap-action switch can be wired NO or NC circuits



35-475



Momentary Pushbutton Switch-Black Button

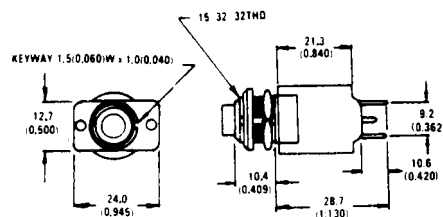
Specifications:
Current Rating: 0.5A 125I/250V AC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V AC (min.)
Contact Material: Silver
Terminal Material: Brass – Nickel plated
Mounting Hole: .500
Terminal Type: 6.3mm Tab Terminals
Hardware: 1 Black Hex nut, 1 Brass Lock nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	(ON) OFF	Black Plastic	35-475

SPECIAL NOTE: () = Momentary Function



35-476



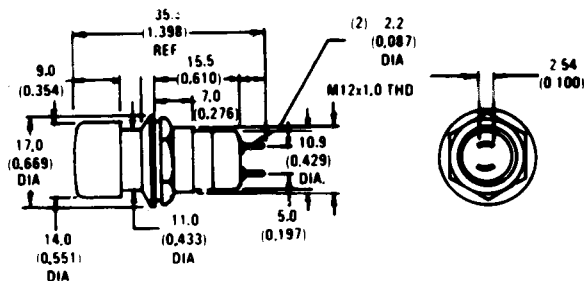
Momentary Pushbutton Switch -Red Button

Specifications:
Current Rating: 0.5A-125V/250V AC
Initial Contact Resistance: 2.3 Milliohms
Insulation Resistance: 600 Megohms
Dielectric Strength: 7200V AC
Contact Material: Brass – Silver plated
Terminal Material: Brass – Silver plated
Terminal Type: Combination 1/4" Quick Connect Solder
Mounting Hole: 0.500"
Hardware: 1 Black Hex nut, 1 Brass Lock nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST N.O.	(ON) OFF	Red Plastic	35-476



SPST



Standard Size Round Pushbutton Switches

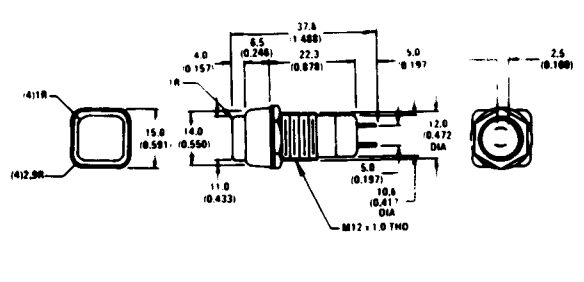
Specifications:
Current Rating: 3A-250V AC
Initial Contact Resistance: 10 Milliohms (max.) @ 2.5V DC 1A
Insulation Resistance: 100 Megohms (min.) @ 500V DC
Dielectric Strength: 1500V AC 1 Minute
Contact Material: Silver – Silver plated
Terminal Material: Silver plated Copper Alloy
Electrical Life: 20,000 cycles
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: Nut, Washer

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	N.O. Momentary Off – (On)	Red Plastic	35-420
SPST	Push-On Push-Off	White Plastic	35-422

*SPECIAL NOTE: Chrome Ring Mounting...
 **White button available Bulk only
 (35-0425 made to order)*



35-421



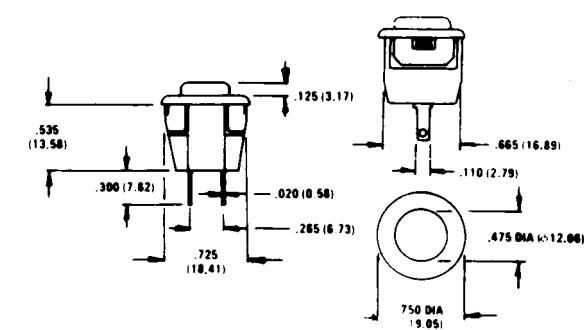
Standard Size Square Pushbutton Switch

Specifications:
Current Rating: 3A-250V AC
Initial Contact Resistance: 25V DC @ 1A, 20 Milliohms
Insulation Resistance: 1000 Megohms
Dielectric Strength: 500V DC
Contact Material: Silver
Terminal Material: Silver Plated Copper Alloy
Electrical Life: 20,000 cycles
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: Nut, Washer

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	N.O. Momentary Off (On)	Red Plastic	35-421



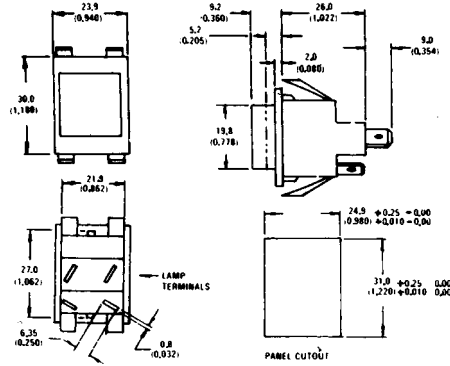
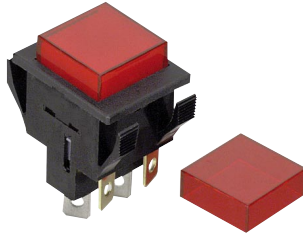
35-423



Standard Size Round Pushbutton Switch

Specifications:
Current Rating: 3A-125V AC
Initial Contact Resistance: 2.5V DC, 1A, 20 Milliohms or Less
Insulation Resistance: 500V DC 100 Megohms or More
Dielectric Strength: 1000V AC-1 Minute
Contact Material: Silver Plated Copper Alloy
Terminal Material: Silver Plated Copper Alloy
Electrical Life: 30,000 cycles
Terminal Type: Solder
Mounting Hole: 0.687" Snap-in

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	N.O. Momentary Off (On)	Red Plastic	35-423



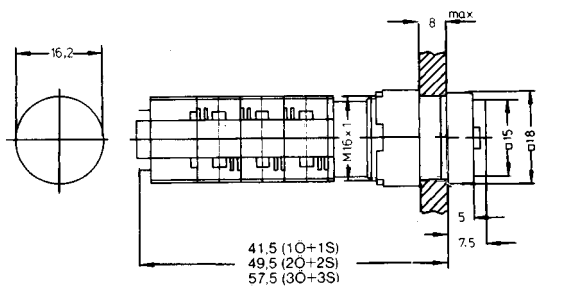
Lighted Square Pushbutton Switches



Specifications:
Current Rating: 10A-125/250V AC; 1/4HP-125V AC; 10A 14VDC
Initial Contact Resistance: 2.5 Milliohms Typical
Insulation Resistance: 5-10 Megaohms Typical
Dielectric Strength: 2000V AC RMS
Contact Material: Silver
Terminal Material: Silver – Brass plated
Electrical Life: 25,000 cycles
Mechanical Life: 100,000 cycles
Terminal Type: Combination 1/4" Quick Connect and Solder
Lamp: 12V Incandescent (Non-replaceable)
Mounting Hole: 1.100" x 0.880"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Push-On Push-Off	Red Lens Button	35-480
SPST	Push-On Push-Off	Amber Lens Button	35-482
SPST	Push-On Push-Off	Green Lens Button	35-484

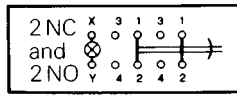
SPECIAL NOTE: Replacement Red Cap - Bulk only - 35-481
NOTE: N.O. = Off



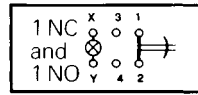
Square Lighted Pushbutton Switches



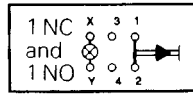
Specifications:
Current Rating: 4A-250V AC
Initial Contact Resistance: 20 Milliohms
Contact Material: Silver
Terminal Material: Silver
Electrical Life: 600,000 cycles
Temperature Rating: -25°C to +70°C w/o lamp; -25°C to +55°C w/lamp
Terminal Type: Solder
Mounting Hole: 0.638"



35-3430



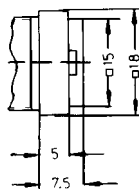
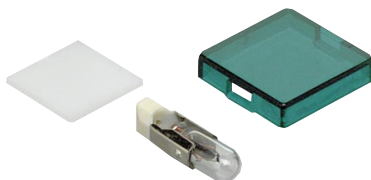
35-3414



35-3412

TYPE	ACTION ALTERNATING	ACTUATOR	CAT. NO.
SPDT	1 N.C. and 1 N.O. Momentary	Square Lighted Pushbutton	35-3412
SPDT	1 N.C. and 1 N.O.	Square Lighted Pushbutton	35-3414
DPDT	2 N.C. and 2 N.O.	Square Lighted Pushbutton	35-3430

NOTE: Select one of the square colored lenses below to complete these switches. Can be wired to normally open or closed.

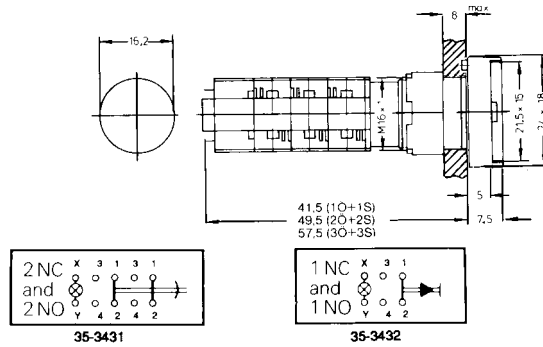


Square Colored Lenses and Diffuser

[Lamp Included]

DESCRIPTION	CAT. NO.
Square Transparent Green Lens and Diffuser	35-3435
Square Transparent Red Lens and Diffuser	35-3437
Square Transparent Clear Lens and Diffuser	35-3438
Square Transparent Yellow Lens and Diffuser	35-3439

NOTE: For use with 35-3412, 35-3414, 35-3430.....to order Bulb Only ML-T4.5 12/40 (12V-T 1-1/4 L Slide Base T4.5L)

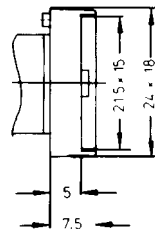
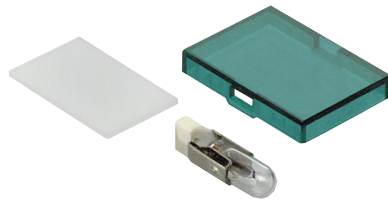


Rectangular Lighted Pushbutton Switches

Specifications:
Current Rating: 4A-250V AC
Initial Contact Resistance: 20 Milliohms
Contact Material: Silver
Terminal Material: Silver
Electrical Life: 600,000
Temperature Rating: -25°C to +77°C w/o lamp; -25°C to +55°C w/lamp
Terminal Type: Solder
Mounting Hole: 0.638"

TYPE	ALTERNATING ACTION	ACTUATOR	CAT. NO.
DPDT	2 N.C. and 2 N.O.	Rectangular Lighted Pushbutton	35-3431
SPDT	1 N.C. and 1 N.O. Momentary	Rectangular Lighted Pushbutton	35-3432

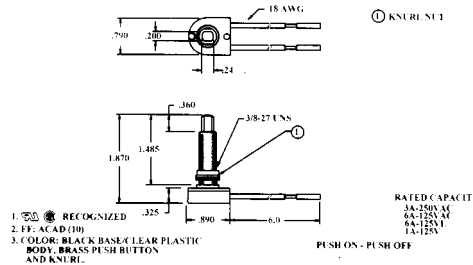
NOTE: Select one of the rectangular colored lenses below to complete these switches.
 NOTE: Can be wired normally open or closed.



Rectangular Colored Lenses and Diffuser

DESCRIPTION	[Lamp Included]	CAT. NO.
Rectangular	Transparent Green Lens and Diffuser	35-3440
Rectangular	Transparent Red Lens and Diffuser	35-3442
Rectangular	Transparent Clear Lens and Diffuser	35-3443
Rectangular	Transparent Yellow Lens and Diffuser	35-3444

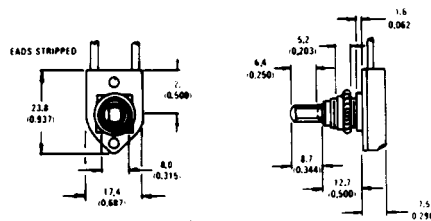
NOTE: For use with 35-3431, 35-3432...to order Bulb Only 35-3425-003R (12V-T 1-1/4 L Slide Base T4.5L)



Canopy Pushbutton Switch

Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V
Contact Material: Copper
Terminal Material: Copper Alloy
Terminal Type: Wire Leads-18 AWG
Mounting Hole: 0.375"
Hardware: Brass Knurled nut, Hex nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Plastic	35-3460



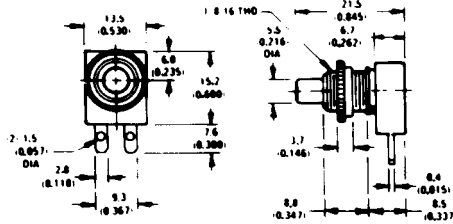
Pushbutton Appliance Switch

Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Initial Contact Resistance: 2.5V DC 1A 20 Milliohms or Less
Insulation Resistance: 500V DC 100 Megohms or More
Dielectric Strength: 1250V
Contact Material: Copper Alloy
Terminal Material: Copper Alloy
Terminal Type: No. 18 AWG 105°C Plastic, 6" Long, Stripped 1/2" and Tinned
Mounting Hole: 0.375"
Hardware: Hex nut, Knurled nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Push-On Push-Off	Black Plastic	35-852



35-860



Pushbutton Appliance Switch



Specifications:

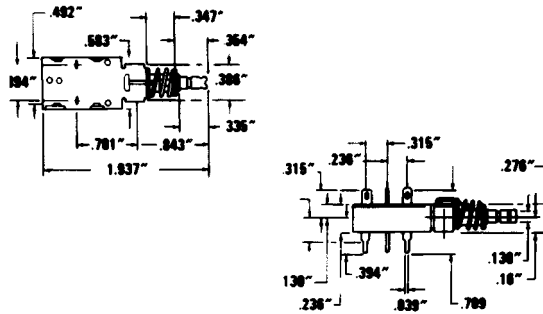
Current Rating: 3A-125V AC, Inductive/2A Lamp Load
Contact Material: Copper Alloy – Tin plated
Terminal Material: Copper Alloy – Tin plated
Terminal Type: Solder
Mounting Hole: 0.375"
Hardware: Black Knurl nut, Washer

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Push-On Push-Off	Black Plastic	35-860

NOTE: To be discontinued.



35-490



Power Pushbutton Switch



On-off power switch has indicator which needs no wiring. For use in computers-modems-telecommunications, audio, test and medical instrumentation. Pin can be removed to make into momentary switch. Can be P.C.-mounted or hard-wired when panel mounted.

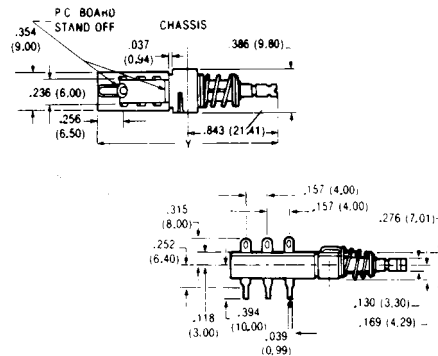
Specifications:

Current Rating: 8A @ 125V AC-UL Rated, 6A-250V AC-Motor Load
Initial Contact Resistance: 10 Milliohms (max.)
Contact Material: Copper – Silver plated
Terminal Material: Copper – Silver plated
Terminal Type: P.C./Solder Eye
Mounting Hole: 9/16"
Hardware: Black Dress Nut

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	Push-On Push-Off	Plastic	35-490



35-491



Power Pushbutton Switch

Pin can be removed to make momentary action. Can be P.C.-mounted.

Specifications:

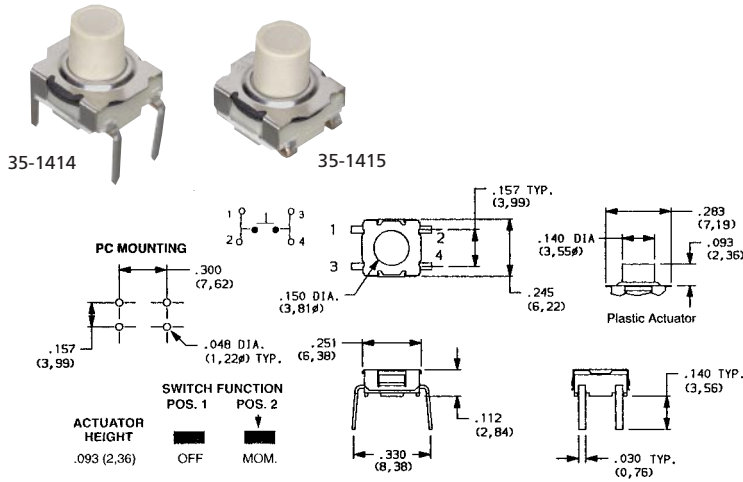
Current Rating: 0.5A-100V AC/0.2A-250V AC
Initial Contact Resistance: 10 Milliohms (max.)
Insulation Resistance: 1 x 10 (14) Ohms (Dry) 2 x 10 (12) Ohms (After Humidity Test)
Dielectric Strength: 1500V AC
Contact Material: Silver
Terminal Material: Copper Alloy – Silver plated
Electrical Life: 100,000 (min.) cycles
Temperature Rating: -20°C to +70°C
Terminal Type: P.C./Solder Eye
Mounting Hole: N/A

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	Push-On or Push-Off Momentary if Pin Removed	Black Plastic	35-491

A round black button included.(button #43-0610-6R) Dim.: .350" D X .406" H.

Tactile Sealed Miniature Key Switches

Specifications:
Current Rating: 1.0 VA max. @50V AC/DC
Initial Contact Resistance: 50 Milliohms or less @2-4VDC, 100mA
Insulation Resistance: 10(9) Ohms (min.)
Dielectric Strength: 250V RMS (min.)
Contact Material: Stainless Steel – Silver plated
Terminal Material: Copper Alloy – Tin-lead Alloy over Nickel plate
Temperature Rating: -40°C to +90°C
Electrical & Mechanical Life: 100,000 cycles
Connected Terminals: Position 1: OPEN, Position 2: 1,2-3,4
Seal: Silicone rubber
Size: 0.250" square (6mm)

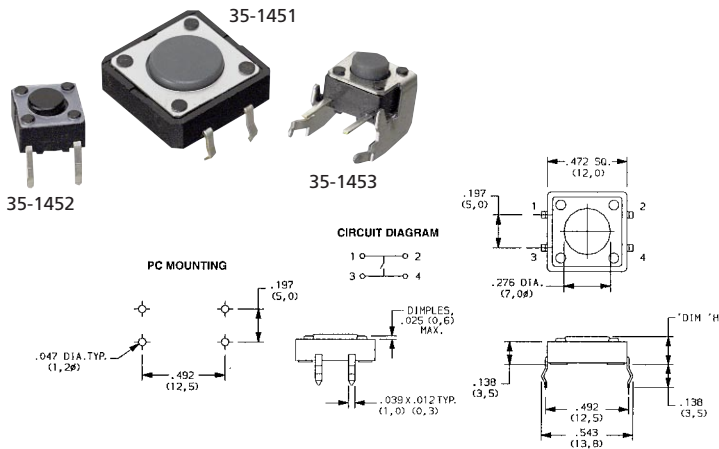


STYLE	TYPE	ACTION	HEIGHT	CAT. NO.
PC Mount	SPST	OFF (ON)	.093"	35-1411
PC Mount	SPST	OFF (ON)	.156"	35-1414
Surface Mount	SPST	OFF (ON)	.093"	35-1412
Surface Mount	SPST	OFF (ON)	.156"	35-1415

SPECIAL NOTE: () = Momentary Function

Sub-Miniature Tactile Pushbutton Switches

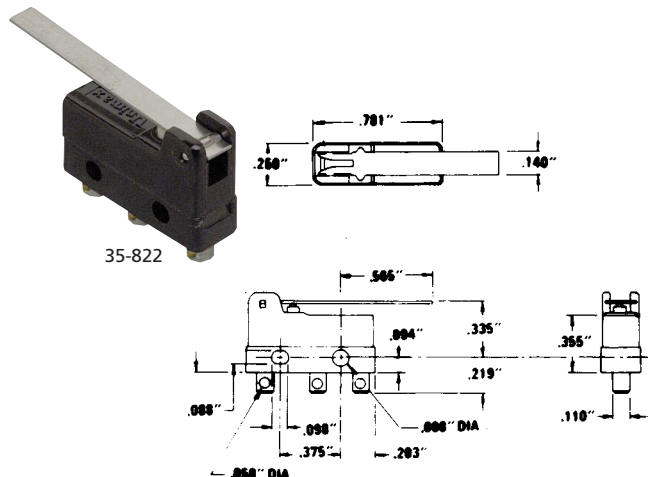
Specifications:
Contact Rating: 50mA @ 12V DC
Initial Contact Resistance: 100 Milliohms max.
Insulation Resistance: 100 Megohms
Dielectric Strength: 250V RMS (min.)
Contact Material: Bronze – Silver plated
Terminal Material: Brass – Silver plated
Temperature Rating: -10°C to +60°C
Electrical & Mechanical Life: 100,000 (200,000 - 35-1451) cycles
Size: 6mm (12mm 35-1451) Low Profile PCB Mount



TYPE	ACTION	ACTUATOR HEIGHT	ACTUATOR COLOR	OPER. FORCE	CAT. NO.
SPST	Off – (On)	.169	Gray	160 grs.	35-1451
SPST	Off – (On)	.169	Black	130 grs.	35-1452
SPST	Right Angle Off – (On)	.151	Gray	200 grs.	35-1453

SPECIAL NOTE: () = Momentary Function

SNAP ACTION SWITCHES

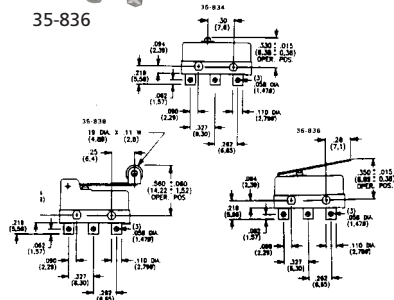
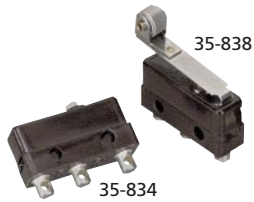


Sub-Miniature Snap Action Switch

Specifications:
Current Rating: 5A-250V AC
Initial Contact Resistance: 0.025 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V to Dead Metal or Ground
Contact Material: Fine Silver
Terminal Material: Brass – tin plate
Temperature Rating: -55°C to +135°C
Electrical Life: 100,000 cycles
Mechanical Life: 3,000,000 cycles
Terminal Type: Solder
Action: Momentary SPDT



ACTUATOR	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
Pivoted Lever	.240"	.030"	2-1/2 oz.	.062"	35-822



Sub-Miniature Snap Action Switches

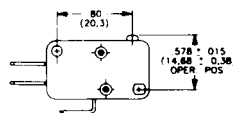


Specifications:
Current Rating: 5A-250V AC
Initial Contact Resistance: 0.025 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V AC RMS
Contact Material: Silver
Terminal Material: Brass - Tin plate
Temperature Rating: -55°C to +135°C
Electrical Life: 100,000 cycles
Mechanical Life: 350,000 cycles
Terminal Type: Solder

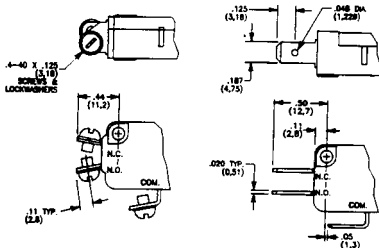
ACTUATOR	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
Plunger	.030"	.005"	5 oz./142 g	.004"	35-834
Lever	.094"	.0470"	6 oz./170 g	.031"	35-836
Roller	.094"	.0470"	6 oz./170 g	.031"	35-838



SPDT
35-823



SPST
35-872



Miniature Snap Action Switches with Pin Plunger Actuator



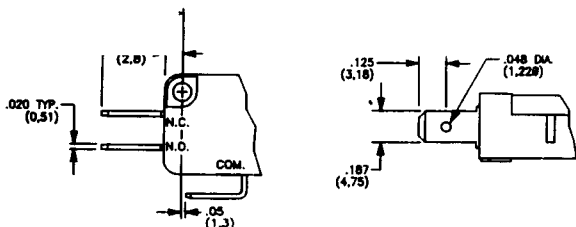
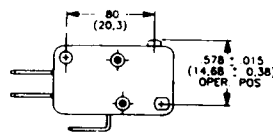
Specifications:
Current Rating: 10A-125/250V AC, 1/3 HP 125-250V AC; 1/2A-125V DC; 1/4A-250V DC (35-3930-10A-277V AC)
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS (1500V AC 35-3930)
Contact Material: Silver
Terminal Material: Brass - Silver plate
Temperature Rating: -55°C to +150°C(35-3930 -40°C to +85°C)
Electrical Life: 350,000 cycles (35-3930 300,000 cycles)
Mechanical Life: 1,000,000 cycles
Terminal Type: Solder - Quick Connect, Screw - 35-3930 only
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.056"	.040"	75 g.	.013"	35-823
SPDT	.047"	.040"	225 g.	.010"	35-3930
SPST	.056"	.040"	75 g.	.013"	35-870††
SPST	.056"	.040"	75 g.	.013"	35-872†

†35-872 is normally open.
 ††35-870 is normally closed.



35-840



Miniature Snap Action Switch with Pin Plunger Actuator

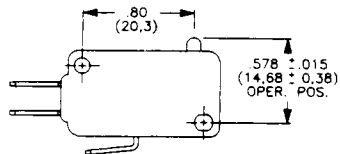


Specifications:
Current Rating: 15A-125/250V AC, 1/2 H.P. 125/250V AC, 1/2A 125V DC; 1/4A 250V DC
Initial Contact Resistance: .005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS
Contact Material: Silver - Silver Plate
Terminal Material: Silver - Silver Plate
Temperature Rating: -55°C to +150°C
Electrical Life: 150,000 cycles
Mechanical Life: 1,000,000 cycles
Terminal Type: Solder/Quick Connect
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.056"	.040"	60 g. to 150 g.	.013"	35-840



35-3932



Miniature Snap Action Switch with Pin Plunger Actuator

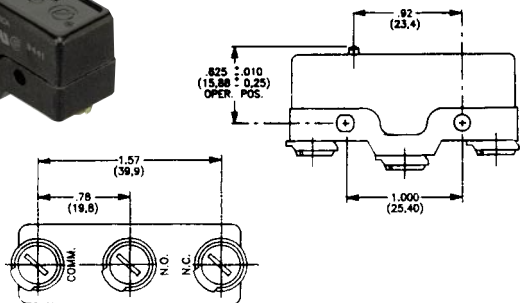


Specifications:
Current Rating: 20A-250V AC, 1 H.P. 125V AC
Initial Contact Resistance: 25 Ohms at 6 VDC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver Cadmium Oxide
Terminal Material: Copper CDS Alloy
Temperature Rating: -40°C to +85°C
Electrical Life: 300,000 @ 10A @ 250VAC
Mechanical Life: 1,000,000 cycles
Terminal Type: Solder/Quick Connect
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.047"	.040"	225 g.	.010"	35-3932



35-3900



Miniature Snap Action Switch with Pin Plunger Actuator

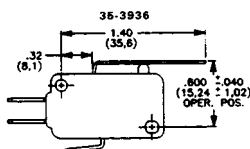
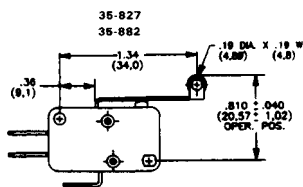


Specifications:
Current Rating: 15A-125/250V AC, 1/4 H.P. 125V AC, 1/2 H.P. 250V AC
Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Copper - Silver plate
Temperature Rating: -55°C to +150°C
Electrical Life: 150,000 cycles @ 20A-250VAC
Mechanical Life: 10,000,000 cycles typical
Terminal Type: Screw
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.020"	.005"	13 oz./370 g.	.002"	35-3900



SPDT
35-827



35-3936

Miniature Snap Action Switches with Roller Actuator

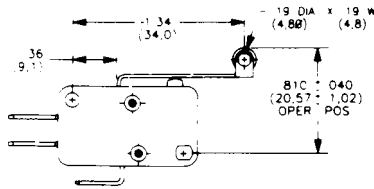


Specifications:
Current Rating: 10A-125/250V AC, 1/3 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC (35-827,35-882) 10A-277V AC, 1/3HP-125/250V AC, 1/2A-125V DC, 1/4A-250V DC (35-3936)
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS AC (1500 VRMS 35-3936)
Contact Material: Silver
Terminal Material: Brass - Silver plate
Temperature Rating: -55°C to +150°C (35-827/882)/-40°C to +85°C (35-3936)
Electrical Life: 350,000 cycles (min.) (35-827/882)/300,000 cycles (35-3936)
Mechanical Life: 1,000,000 cycles (min.)
Terminal Type: Solder/Quick Connect Screw - 35-3936 only
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.160"	.065"	45 g. to 75 g.	.030"	35-827
SPDT	.160"	.065"	80 g.	.030"	35-882
SPDT	.100"	.065"	85 g. to 150 g.	.030"	35-3936



35-848



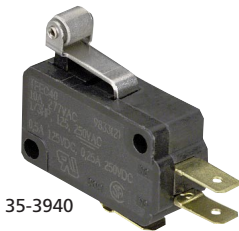
Miniature Snap Action Switch with Roller Actuator

Specifications:

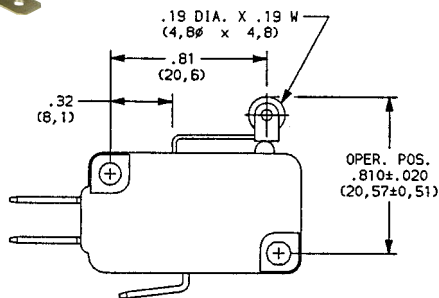
Current Rating: 15A-125/250V AC, 1/2 H.P. 125/250V AC, 1/2A 125V DC, 1/4A - 250VDC
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS
Contact Material: Silver
Terminal Material: Brass CDA Alloy
Temperature Rating: -55°C to +150°C
Electrical Life: 350,000 cycles (min.)
Mechanical Life: 1,000,000 cycles
Terminal Type: Solder/Quick Connect
Action: Momentary



TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.160"	.065"	80 g. to 150 g.	.030"	35-848



35-3940



Miniature Snap Action Switch with Short Roller Actuator

Specifications:

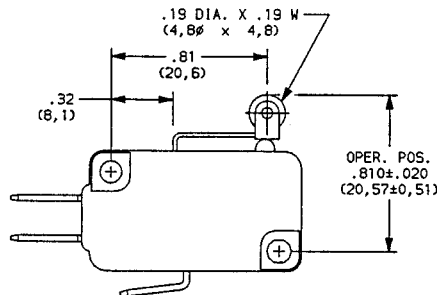
Current Rating: 10A-125/250V AC, (35-3940 - 10A-277V AC), 1/3 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS (1500 V RMS 35-3940)
Contact Material: Silver
Terminal Material: Brass CDA Alloy
Temperature Rating: -55°C to +150°C (-40°C to +85°C 35-3940)
Electrical Life: 350,000 cycles (300,000 cycles 35-3940)
Mechanical Life: 1,000,000 cycles
Terminal Type: Solder/Quick Connect
Action: Momentary



TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.70"	.040"	75 g. to 90 g.	.013"	35-846
SPDT	.70"	.040"	150 g. to 180 g.	.013"	35-876
SPDT	.60"	.030"	225 g.	.015"	35-3940



35-3944



Miniature Snap Action Switch with Short Roller Actuator

Specifications:

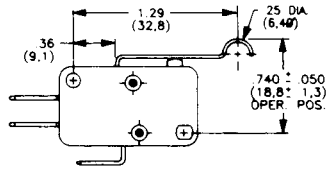
Current Rating: 15A-125/250V AC (15A-277VAC - 35-3944) 1/2 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS AC (1500 VRMS 35-3944)
Contact Material: Silver
Terminal Material: Brass CDA Alloy
Temperature Rating: -55°C to +150°C (-44°C to +85°C 35-3944)
Electrical Life: 150,000 cycles min/300,000 cycles 35-3944
Mechanical Life: 1,000,000 cycles
Terminal Type: Solder/Quick Connect - 35-874, Screw - 35-3944
Action: Momentary



TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.070"	.040"	150 g. to 180 g.	.013"	35-874
SPDT	.060"	.030"	400 g.	.015"	35-3944



35-874



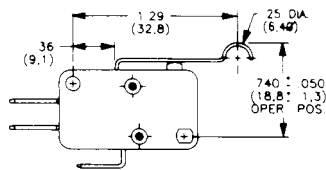
35-878

Miniature Snap Action Switch with Simulated Roller Actuator



Specifications:
Current Rating: 10A-125/250V AC, 1/3 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V AC
Contact Material: Silver
Terminal Material: Brass CDA Alloy
Temperature Rating: -55°C to +150°C
Electrical Life: 350,000 cycles (min.)
Mechanical Life: 1,000,000 cycles
Terminal Type: Solder/Quick Connect
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.140"	.062"	90 g. to 150 g.	.050"	35-878



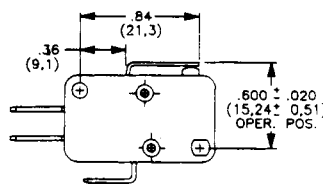
35-842

Miniature Snap Action Switch with Simulated Roller Actuator



Specifications:
Current Rating: 15A-125/250V AC, 1/2 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V AC
Contact Material: Silver
Terminal Material: Brass CDA Alloy
Temperature Rating: -55°C to +150°C
Electrical Life: 150,000 cycles (min.)
Mechanical Life: 1,000,000 cycles
Terminal Type: Solder/Quick Connect
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.140"	.062"	90 g. to 150 g.	.050"	35-842



35-3934

Miniature Snap Action Switch with Short Lever Actuator

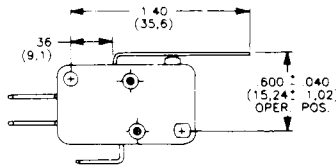


Specifications:
Current Rating: 10A-125/250V AC, 1/3 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS
Contact Material: Silver
Terminal Material: Brass CDA Alloy
Temperature Rating: -55°C to +150°C
Electrical Life: 350,000 cycles (min.)
Mechanical Life: 1,000,000
Terminal Type: Solder/Quick Connect
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.080"	.040"	75 g. to 90 g.	.013"	35-3934



35-880



Miniature Snap Action Switches with Lever Actuator

Specifications:

Current Rating: 10A-125/250V AC, 1/3 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC

Initial Contact Resistance: 0.005 Ohms (max.)

Insulation Resistance: 1000 Megohms (min.)

Dielectric Strength: 1000V RMS

Contact Material: Silver

Terminal Material: Brass CDA Alloy

Temperature Rating: -55°C to +150°C

Electrical Life: 350,000 cycles (min.)

Mechanical Life: 1,000,000 cycles

Terminal Type: Solder

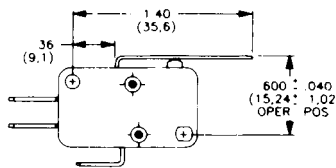
Action: Momentary



TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.160"	.073"	40 g. to 75 g.	.032"	35-880
SPDT	.160"	.090"	30 g. to 50 g.	.032"	35-3942



35-844



Miniature Snap Action Switch with Lever Actuator

Specifications:

Current Rating: 15A-125/250V AC, 1/2 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC

Initial Contact Resistance: 0.005 Ohms (max.)

Insulation Resistance: 1000 Megohms (min.)

Dielectric Strength: 1000V RMS

Contact Material: Silver

Terminal Material: Brass CDA Alloy

Temperature Rating: -55°C to +150°C

Electrical Life: 150,000 cycles (min.)

Mechanical Life: 1,000,000 cycles

Terminal Type: Solder/Quick Connect

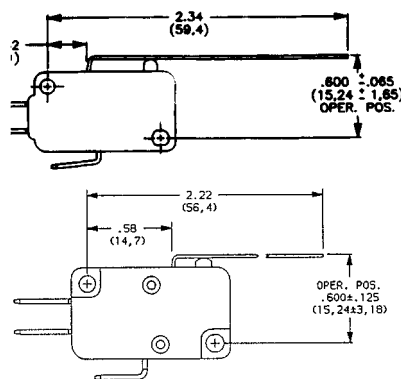
Action: Momentary



TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.160"	.075"	80 g. to 150 g.	.032"	35-844



SPDT
35-3938



Miniature Snap Action Switches with Long Lever Actuator

Specifications:

Current Rating: 10A-125/250V AC, (35-3938 10A-277V AC) 1/3 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC

Initial Contact Resistance: 0.005 Ohms (max.)

Insulation Resistance: 1000 Megohms (min.)

Dielectric Strength: 1000V RMS (1500 VRMS 35-3938)

Contact Material: Silver

Terminal Material: Brass CDA Alloy

Temperature Rating: -55°C to +150°C (-40°C to +85°C 35-3938)

Electrical Life: 350,000 cycles (min.) (300,000 cycles 35-3944)

Mechanical Life: 1,000,000 cycles

Terminal Type: Solder/Quick Connect 0.187"

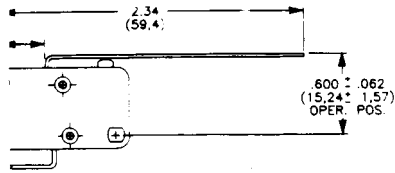
Action: Momentary



TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.500"	.200"	17 g. to 75 g.	.125"	35-824
SPDT	.250"	.125"	70 g. to 225 g.	.045"	35-3938



35-3945



Miniature Snap Action Switch with Long Lever Actuator



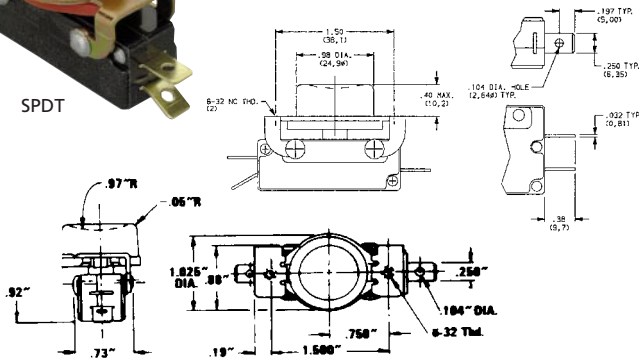
Specifications:

Current Rating: 15A-277V AC, 1/2 H.P. 125/250V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Brass CDA Alloy
Temperature Rating: -40°C to +85°C
Electrical Life: 300,000 cycles (min.)
Mechanical Life: 1,000,000 cycles
Terminal Type: Solder/Quick Connect
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.250"	.125"	120 g. to 400 g.	.045"	35-3945



SPDT



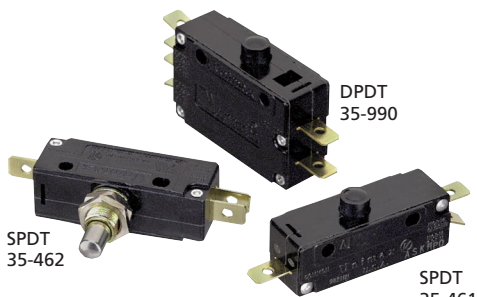
General Purpose Pushbutton Snap Action Switch



Specifications:

Current Rating: 15A-125/250V AC, 3/4 H.P.- 125V AC, 1-1/2" H.P. - 250V AC
Initial Contact Resistance: 0.025 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V AC RMS
Contact Material: Fine Silver
Terminal Material: Brass - Silver plate
Temperature Rating: -55°C to +85°C
Electrical Life: 200,000 cycles
Mechanical Life: 500,000 cycles
Terminal Type: .250 Quick Connect
Mounting Hole: 1"
Action: Momentary
Actuator: Red or Black Pushbutton

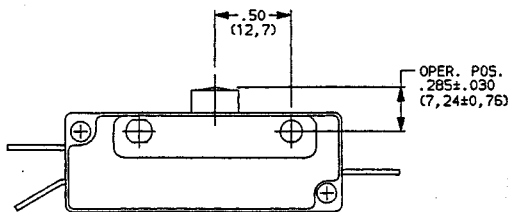
TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	ACTUATOR	CAT. NO.
SPDT	.050"	.050"	20 oz./567 g.	.010"	Red	35-830
SPDT	.050"	.050"	20 oz./567 g.	.010"	Black	35-831



SPDT 35-462

DPDT 35-990

SPDT 35-461



Standard Snap Action Switches with Pushbutton Actuator



Specifications:

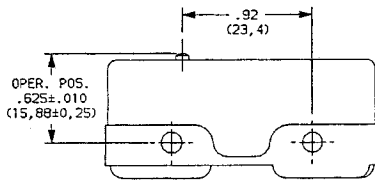
Current Rating: 15A-125/250V AC, 3/4 H.P. 125V AC, 1-1/2 H.P. 250V AC
Initial Contact Resistance: 0.025 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS
Contact Material: Silver
Terminal Material: Brass - Silver plate
Temperature Rating: -55°C to +85°C
Electrical Life: 200,000 cycles
Mechanical Life: 500,000 cycles
Terminal Type: 0.250" Quick Connect
Mounting Hole: 0.344"
Action: Momentary
Hardware: 35-462 - 2 Hex nuts

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.050"	.050"	20 oz./567 g.	.010"	35-461
SPDT	.050"	.187"	20 oz./567 g.	.010"	35-462†
DPDT	.050"	.050"	30 oz./850 g.	.010"	35-990

†35-462 has an over travel plunger.



SPDT
35-894



Standard Precision Snap Action Switches with Pin Plunger Actuator



Specifications:
Current Rating: 20A-125/250/480V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Copper – Silver Plate
Temperature Rating: -55°C to 150°C
Electrical Life: 150,000 cycles
Mechanical Life: 10,000,000 cycles typical
Terminal Type: Screw/Solder
Action: Momentary

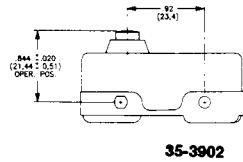
TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.020"	.005"	13 oz./370 g.	.002"	35-894
SPDT	.030"	.005"	26 oz./740 g.	.005"	35-980



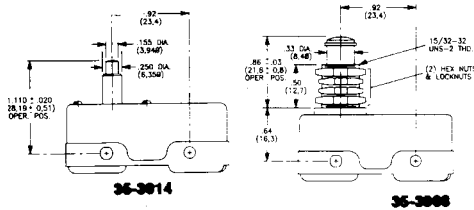
35-3908

35-3914

35-3902



35-3902



35-3914

35-3908

Standard Snap Action Switches with Air Plunger Actuator



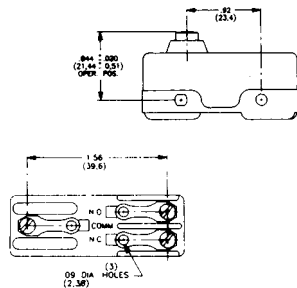
Specifications:
Current Rating: 20A-125/250/480V AC, 1 H.P. 250V AC, 1/2 H.P. 125V AC, 1/4 H.P. 250V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 25 Milliohms max. @ 6V DC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Copper – Silver plate
Temperature Rating: -55°C to +150°C
Electrical Life: 150,000 cycles
Mechanical Life: 10,000,000 cycles
Terminal: Type Screw
Action: Momentary
Hardware: 35-3908 2 large Hex, 2 Lockhex nuts

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.020"	.055"	13 oz./370 g.	.002"	35-3902†
SPDT	.020"	.220"	13oz./370 g.	.002"	35-3908††
SPDT	.020"	.062"	13oz./370 g.	.002"	35-3914†††

† 35-3902 is a stub plunger
 †† 35-3908 is a high over travel plunger
 ††† 35-3914 is a small over travel plunger



35-892



Standard Precision Snap Action Switch with Plunger Actuator

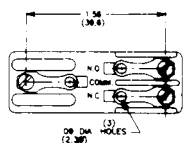
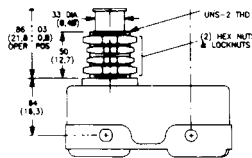


Specifications:
Current Rating: 20A-125/250/480V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Copper – Silver plate
Temperature Rating: -55°C to 150°C
Electrical Life: 150,000 cycles
Mechanical Life: 10,000,000 cycles typical
Terminal Type: Solder
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.020"	.055"	13 oz./370 g.	.002"	35-892



SPDT
35-896



Standard Precision Snap Action Switches with Plunger Actuator

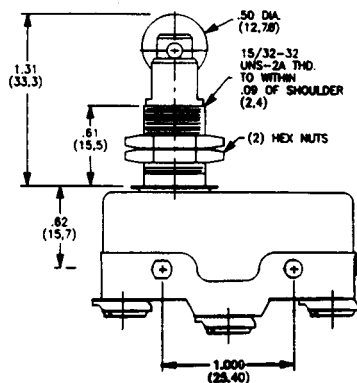


Specifications:
Current Rating: 20A-125/250/480V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Copper – Silver plate
Temperature Rating: -55°C to +150°C
Electrical Life: 150,000 cycles
Mechanical Life: 10,000,000 typical cycles
Terminal Type: Screw/Solder
Hardware: 2 Hex nut, 2 Lockhex nuts

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.020"	.220"	13 oz./370 g.	.002"	35-896
SPDT	.030"	.220"	26 oz./740 g.	.005"	35-982



35-3910



Standard Snap Action Switch with Roller Plunger Actuator

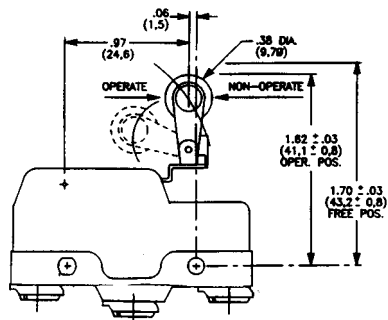


Specifications:
Current Rating: 20A-125/250/480V AC, 1 H.P. 250V AC, 1/2 H.P. 125V AC, 1/4 H.P. 250V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Copper – Silver plate
Temperature Rating: -55°C to +150°C
Electrical Life: 150,000 cycles
Mechanical Life: 10,000,000 cycles
Terminal Type: Screw
Action: Momentary
Hardware: 2 Hex nuts

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.020"	.141"	13 oz./370 g.	.002"	35-3910



35-3922



Standard Snap Action Switch with Hinged Roller Actuator

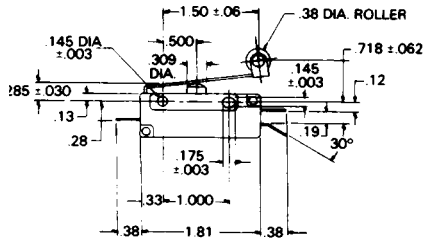


Specifications:
Current Rating: 20A-125/250/480V AC, 1 H.P. 250V AC, 1/2 H.P. 125V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Copper – Silver plate
Temperature Rating: -55°C to 150°C
Electrical Life: 150,000 cycles
Mechanical Life: 10,000,000 cycles typical
Terminal Type: Screw
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	—	.094"	18 oz./510 g.	.020"	35-3922



35-463



Standard Snap Action Switch with Roller Actuator



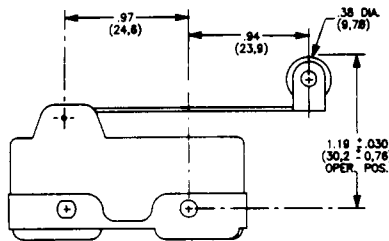
Specifications:

Current Rating: 15A-125/250V AC, 3/4 H.P. 125V AC, 1-1/2 H.P. 250V AC
Initial Contact Resistance: 0.025 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS
Contact Material: Silver
Terminal Material: Brass – Silver plate
Temperature Rating: -55°C to +85°C
Electrical Life: 200,000 cycles
Mechanical Life: 500,000 cycles
Terminal Type: 0.250 Quick Connect
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.281"	.062"	20 oz./567 g.	.094"	35-463



35-986



Standard Precision Snap Action Switch with Roller Actuator



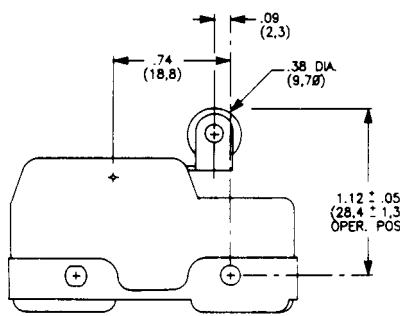
Specifications:

Current Rating: 20A-125/250/480V AC, 10A-125V AC, 1/2A-125V DC, 1/4A-250V DC, 1 H.P. 125V AC, 2 H.P. 250V AC
Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS
Contact Material: Silver
Terminal Material: Brass CDA Alloy – Tin plate
Temperature Rating: -55°C to 150°C
Electrical Life: 100,000 cycles
Mechanical Life: 1,000,000 cycles typical
Terminal Type: Screw
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.468"	.062"	2.5 oz./71 g. to 22 oz./624 g.	.085"	35-986



35-3920



SINGLE SWITCH

Standard Snap Action Switch with Short Roller Actuator



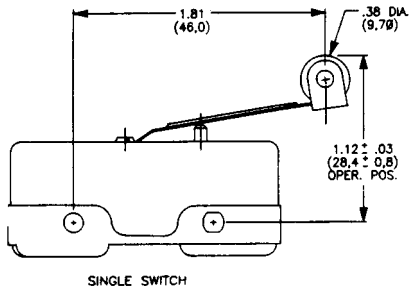
Specifications:

Current Rating: 20A-125/250/480V AC, 1 H.P. 250V AC, 1/2 H.P. 125V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 0.005 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Brass – Tin plate
Temperature Rating: -55°C to +150°C
Electrical Life: 150,000 cycles
Mechanical Life: 10,000,000 cycles
Terminal Type: Solder/Quick Connect
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.080"	.090"	10 oz./284 g. to 13 oz./370 g.	.008"	35-3920



35-3906

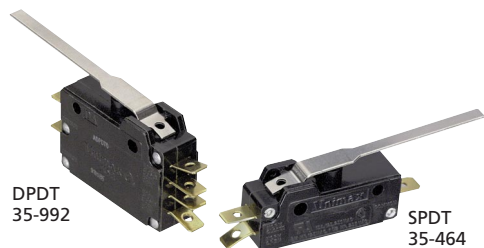


Standard Snap Action Switch with Leaf Roller Actuator



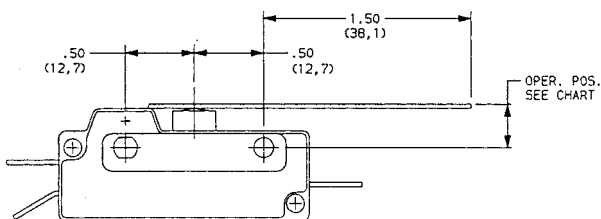
Specifications:
Current Rating: 20A-125/250/480V AC, 1 H.P. 250V AC, 1/2 H.P. 125V AC, 1/2A-125V DC, 1/4A-250V DC
Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Silver
Terminal Material: Brass – Tin plate
Temperature Rating: -55°C to 150°C
Electrical Life: 150,000 cycles
Mechanical Life: 10,000,000 cycles
Terminal Type: Screw
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.156"	.062"	5 oz./142 g. to 13 oz./370 g.	.050"	35-3906



DPDT
35-992

SPDT
35-464



Standard Snap Action Switches with Lever Actuator

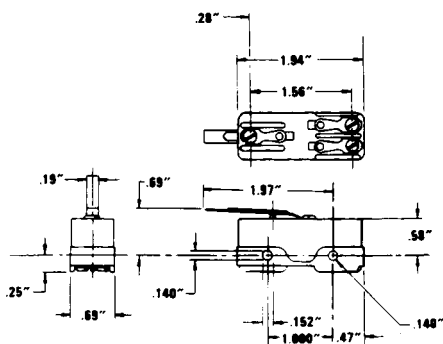


Specifications:
Current Rating: 15A-125/250V AC, 3/4 H.P. 125V AC 1-1/2 H.P. 250V AC
Initial Contact Resistance: 0.025 Ohms (max.)
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS
Contact Material: Silver
Terminal Material: Brass CDA Alloy
Temperature Rating: -55°C to +85°C
Electrical Life: 200,000 cycles
Mechanical Life: 500,000 cycles
Terminal Type: 0.250" Quick Connect
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.312"	.187"	20 oz./567 g.	.062"	35-464
DPDT	.312"	.187"	30 oz./850 g.	.062"	35-992



35-828



Precision Snap Action Switch with Lever Actuator

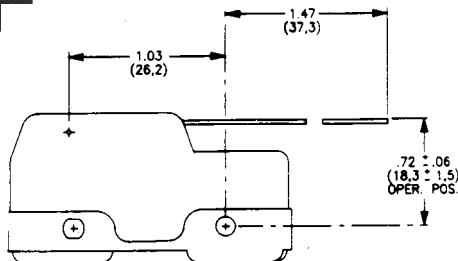


Specifications:
Current Rating: 20A-125/250/480V AC, 1/4A-250V DC 1/2A-125V DC
Initial Contact Resistance: 0.025 Ohms (max.)
Insulation Resistance: 1000 Milliohms (min.)
Dielectric Strength: 1500V RMS
Contact Material: Fine Silver
Terminal Material: Brass Alloy – Tin plate
Temperature Rating: -55°C to -150°C
Electrical Life: 150,000 cycles
Mechanical Life: 10,000,000 cycles
Terminal Type: Solder Lug
Action: Momentary

TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.156"	.062"	5 oz./142 g. to 13 oz./370 g.	.050"	35-828



35-3916



Standard Snap Action Switch with Lever Actuator

Specifications:

Current Rating: 20A-125/250/480V AC, 1 H.P. 250V AC, 1/2 H.P. 125V AC, 1/2A-125V DC, 1/4A-250V DC

Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC

Insulation Resistance: 1000 Megohms (min.)

Dielectric Strength: 1500V RMS

Contact Material: Silver

Terminal Material: Brass Alloy – Tin plated

Temperature Rating: -55°C to +150°C

Electrical Life: 150,000 cycles

Mechanical Life: 10,000,000 cycles

Terminal Type: Screw

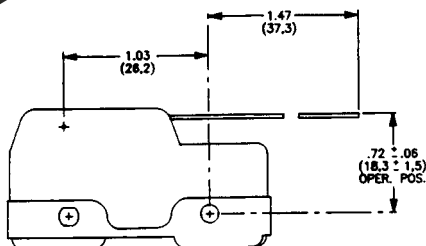
Action: Momentary



TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.380"	.190"	2.5 oz./71 g. to 18 oz/510 g.	.078"	35-3916



SPDT



Standard Precision Snap Action Switches with Lever Actuator

Specifications:

Current Rating: 20A-125/250/480V AC, 1/2A-125V DC, 1/4A 250V DC

Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC

Insulation Resistance: 1000 Megohms (min.)

Dielectric Strength: 1500V RMS

Contact Material: Silver

Terminal Material: Brass Alloy – Tin plate

Terminal Material: Brass

Terminal Type: Screw/Solder

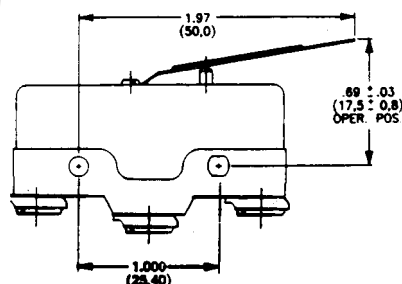
Action: Momentary



TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.380"	.190"	3.5 oz./100 g. to 26 oz./740 g.	.156"	35-890
SPDT	.380"	.190"	2.5 oz./60 g. to 9 oz./255 g.	.047"	35-984



35-3904



Standard Snap Action Switch with Lever Actuator

Specifications:

Current Rating: 20A-125/250/480V AC, 1 H.P. 250V AC, 1/2 H.P. 125V AC, 1/2A-125V DC, 1/4A-250V DC

Initial Contact Resistance: 25 Milliohms (max.) @ 6V DC

Insulation Resistance: 1000 Megohms (min.)

Dielectric Strength: 1500V RMS

Contact Material: Silver

Terminal Material: Brass CDA Alloy – Tin plate

Temperature Rating: -55°C to +150°C

Electrical Life: 150,000 cycles

Mechanical Life: 10,000,000 cycles

Terminal Type: Screw

Action: Momentary

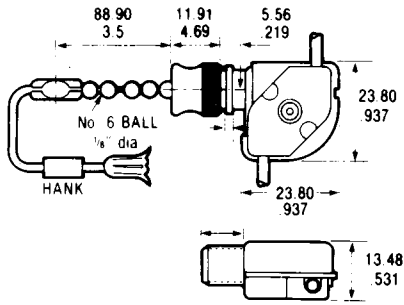


TYPE	MAX. PRE-TRAVEL	MIN. OVER-TRAVEL	MAX. OPERATING FORCE	MAX. DIFFERENTIAL	CAT. NO.
SPDT	.156"	.062"	5 oz./142 g. to 13 oz./370 g.	.050"	35-3904

SPECIALTY SWITCHES



35-864



Pull Chain Appliance Switch



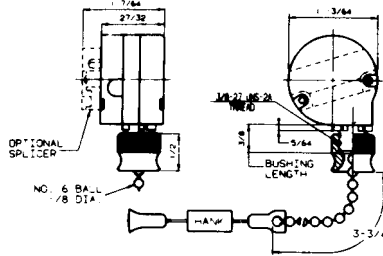
Specifications:
Current Rating: 6A-125V AC/3A-250V AC
Insulation Resistance: @ 500V DC, 100 Megohms or Less
Dielectric Strength: 1000V RMS
Contact Material: Copper Alloy
Terminal Material: Copper
Temperature Rating: not to exceed 54°F
Electrical life: UL test 6000 cycles (min.)
Terminal Type: No. 18 AWG/105C Plastic, 6" Long, Stripped 1/2"
Mounting Hole: 0.406"
Hardware: Large brass Knurl nut, Brass chain and 3' extension string w/bell

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON - OFF	3-1/2" Pull Chain	35-864



35-867

35-865



Pull Chain Switch

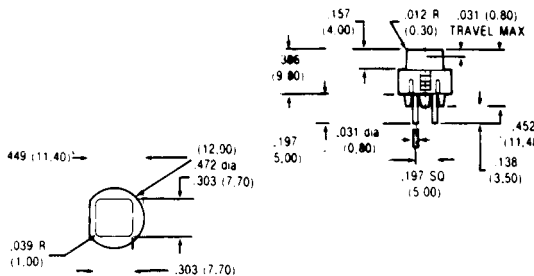


Specifications:
Current Rating: 3A-250V AC, 6A-125V AC,
Dielectric Strength: 1000V RMS
Contact Material: Copper Alloy
Terminal Material: Copper
Temperature Rating: not to exceed 54°F
Electrical Life: UL tested 6000 cycles (min.)
Terminal Type: Push-In
Terminal Mounting: Hole 0.406"
Hardware: Large brass Knurl nut, Brass chain, 3' extension string

TYPE	ACTION	ACTUATOR	CAT. NO.
Rotary	Two Circuit Three Position OFF-ON-ON	3-3/4" Pull Chain	35-865
SP3T	OFF-ON-ON-ON	3-3/4" Pull Chain	35-867



35-443



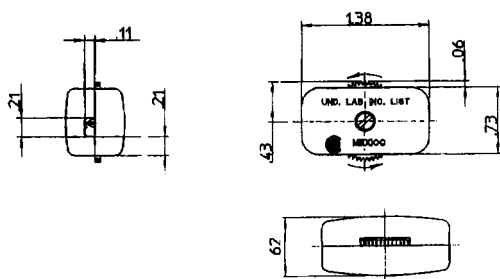
Low Travel-Key Switch

Specifications:
Current Rating: 10mA/35V DC (max.), 10mA - 100V AC
Initial Contact Resistance: Less than 20 Milliohms
Insulation Resistance: 100,000 Megohms
Dielectric Strength: 500V
Contact Material: Laminated Silver (Self Cleaning)
Terminal Material: Copper - Silver clad
Temperature Rating: 20°C to 85°C
Electrical Life: 500,000 cycles
Terminal Type: Printed Circuit
Actuator Color: Black

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Normally Open Momentary	Square Plastic (ABS) Black	35-443



SPST



Cord Switch

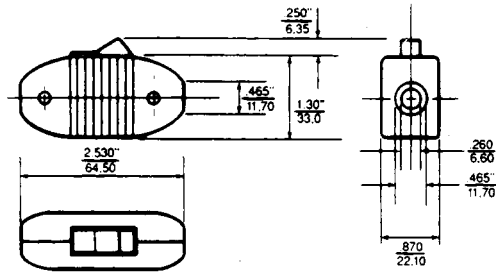


Specifications:
Current Rating: 3A-250V AC/6A-125V AC
Contact Material: Brass
Terminal Material: Spring Brass
Terminal Type: Insulation Piercing

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Rotary ON-OFF	White Plastic	35-849
SPST	Rotary ON-OFF	Brown Plastic	35-850



35-851



In Line Cord Switch

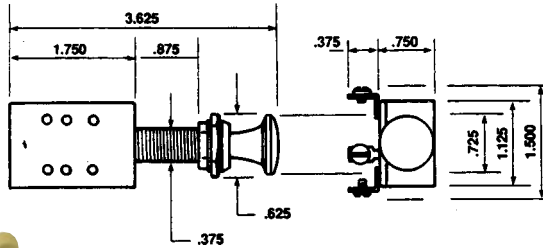


Specifications:
Current Rating: 10A-125VAC, 5A-250V AC
Dielectric Strength: 300 Volt
Terminal Material: Brass
Terminal Type: Screw
Mounting Hole: Wire Type - SPT-2 (18AWG 2-Cond.)

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	On OFF	Red Rocker	35-851



35-3480



Automotive / Marine Push Pull Switch (2-Circuit) DC

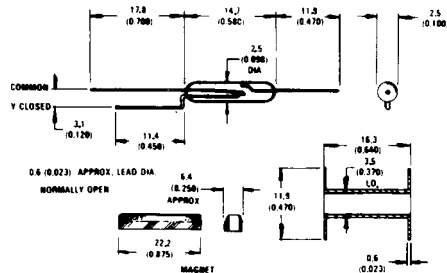
Specifications:
Current Rating: 15A-12V DC, 25A-6V DC
Terminal Material: Brass
Terminal Type: Screw
Mounting Hole: 13/32" Diameter

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	(1) OFF (1 & 2) ON ON	Knob	35-3480

SPECIAL NOTE: () = Momentary Function



35-752



Miniature Reed Switch Kit

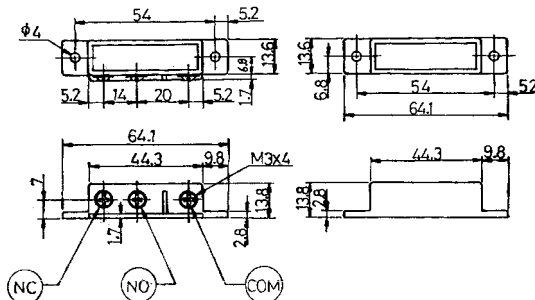
Specifications:
Current Rating: 0.5A (max.) @ 20V AC/DC (10 Watts max.)
Voltage Rating: 120V AC (max.) @ 0.08A 80V DC (max.) @ 0.1A
Contact Material: Gold Plated Iron Alloy
Terminal Material: Tin Plated Iron Alloy
Temperature Rating: -40°C to +125°C
Terminal Type: Solder

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	Normally Open and Normally Closed Contacts	Magnet	35-752

SPECIAL NOTE: 35-752 contains switch, magnet and coil form.
 35-753-BU contains switch only.



SPST



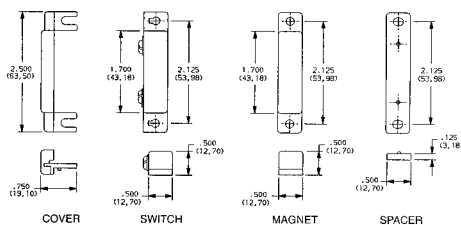
Reed Switches

Specifications:
Current Rating: 0.5A (max.) @ 20V AC/DC, 10 Watts (max.)
Voltage Rating: 120V AC (max.) @ 0.08A 80V DC (max.) @ 0.1A
Contact Material: Gold Plated Iron Alloy
Terminal Material: Plated Steel
Terminal Type: Screw
Mounting Hole: 0.136" (1.970" Centers)

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	Normally Open without Magnet	Magnet	35-750
SPDT	Normally Open without Magnet or Normally Closed without Magnet	Magnet	35-756

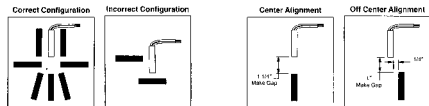


35-751



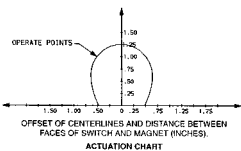
Actuating Positions

When installing recessed and end surface mount contacts, magnet position is very important. The switch and magnet must always be parallel or end to end, and never in a "T" configuration.



Gap Distance

Gap distance is a combination of the horizontal and vertical plane separation of the switch and magnet. Example: if a recessed magnet is 1/4" off the centerline of the switch, the make gap is reduced by 1/4".



35-754



35-761



35-762

Reed Switches



Specifications:

Current Rating: 3.0W (max.) @ 30V DC or 30 V AC (max.) @ 0.3A (max.)

Initial Contact Resistance: 100 Milliohms (max.)

Dielectric Strength: 200 VDC

Temperature Rating: -40°C to 100°C

Electrical & Mechanical Life: 10 million operations

Wire Leads: UL 1061, 22AWG, stranded copper or aluminum-12" stripped/white

Electrical Circuit: SPST NO (normally open-off). Reed switch opens when magnet is removed from proximity. Contacts are held closed (on) when magnet is within actuation range.

Operating Distance: Operate (pull-in or make) points are with +/- 10% tolerance. Release points are 110% to 150% of the operating points

Hardware: 2-4 screws for Screw mounts, Specs data sheets for all items included.

TERMINAL TYPE	MOUNTING TYPE	GAP (in.)	ACTUATOR	CAT. NO.
Screw	Terminal Surface	1-1/4"	Magnet	35-751
Side Wire Lead	Submin. Surface	1"	Magnet	35-754
Wire Lead	Recessed Magnet 3/4" dia.	1-1/4"	Magnet	35-761
Wire Lead	Recessed Magnet 3/8" dia.	1-1/4"	Magnet	35-762

Knife Switch

Specifications:

Current Rating: 0.5A -6V DC

Initial Contact Resistance: 15mW (max.)

Contact Material: Nickel Plated Steel

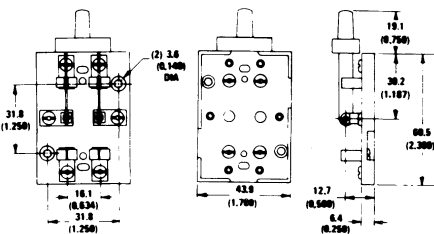
Terminal Material: Nickel Plated Steel

Terminal Type: Screw

Mounting Hole: 3.4mm



35-730



TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON-OFF-ON	Plastic Handle	35-730

Mercury Tilt Switch

Specifications:

Current Rating: 3A-120V AC, 2A-240V AC, 6A-30V AC--4A-30V DC, 2A-120V DC, 1A-240V DC

Contact Material: Iron Alloy/Mercury

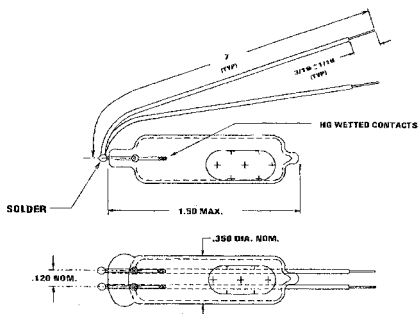
Terminal Material: Copper Wire #26 AWG Insulated

Terminal Type: 5-1/2" (14 cm) typical/overall 7" typical Flexible Leads-Stripped

Differential Angle: .350 PVC Insulation - 80°C



35-760

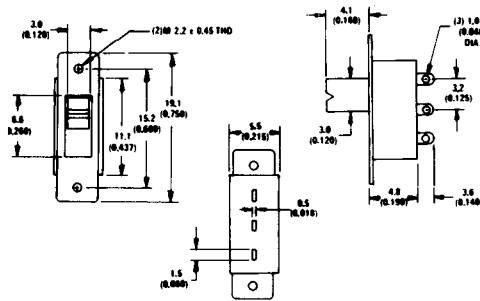


TYPE	ACTION	TILT ANGLE	ACTUATOR	CAT. NO.
SPST	Normally Open or Closed Depending on Orientation	10° Max 8° Make/ Break	Mercury	35-760

SLIDE SWITCHES



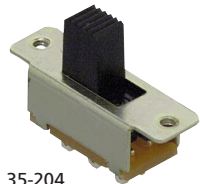
35-202



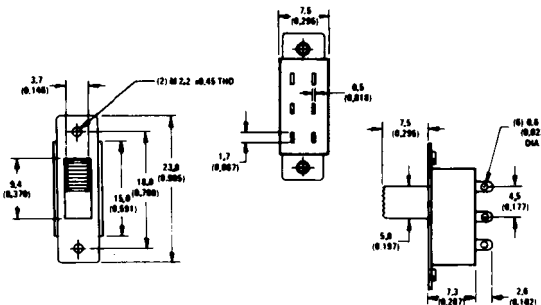
Miniature Slide Switch

Specifications:
 Current Rating: 0.3A-30V
 Initial Contact Resistance: 5 Milliohms (max.)
 Insulation Resistance: 100 Megohms
 Dielectric Strength: 1200V RMS
 Contact Material: Bronze – Silver plate
 Terminal Material: Copper – Silver plate
 Terminal Type: Solder

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON-ON	Black Plastic	35-202



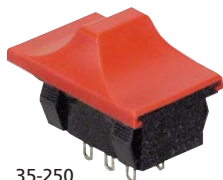
35-204



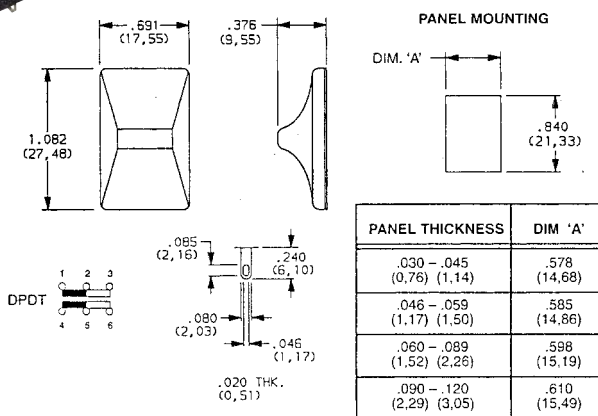
Miniature Slide Switch

Specifications:
 Current Rating: 0.3A-30V
 Initial Contact Resistance: 5 Milliohms (max.)
 Insulation Resistance: 100 Megohms
 Dielectric Strength: 1200V RMS
 Contact Material: Bronze – Silver
 Terminal Material: Copper – Silver plated
 Terminal Type: Solder

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON-ON	Black Plastic	35-204



35-250



Miniature Slide Switch

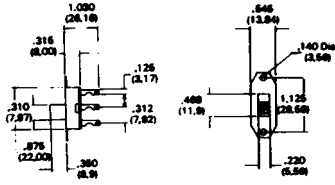


Specifications:
 Current Rating: 6A-125V AC, 3A-250V AC
 Initial Contact Resistance: 10 Milliohms or Less @2-4VDC, 100mA
 Insulation Resistance: 10(9) Ohms
 Dielectric Strength: 1000V RMS
 Contact Material: Copper – Silver plate
 Terminal Material: Copper – Silver plate
 Electrical Life: 10,000 cycles
 Mechanical Life: 100,000 cycles
 Mounting Hole: 0.840" x 0.625"
 Mounting Style: Snap-in w/o Tabs
 Termination Type: Solder lug w/whole

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON-ON	Red Cap	35-250



35-242

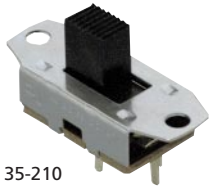


Standard Size Slide Switch

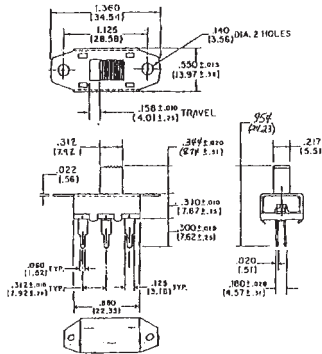
Specifications:
Current Rating: 11A-125V AC, 5A-125V DC
Initial Contact Resistance: 5 Milliohms
Insulation Resistance: 100 Megohms
Dielectric Strength: 1200V RMS
Contact Material: Silver Plated Copper Alloy
Terminal Material: Silver Plated Copper Alloy
Terminal Type: Solder

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON-ON	Black Plastic	35-242

NOTE: Unpackaged - 34-162-1R



35-210



Standard Size Slide Switch

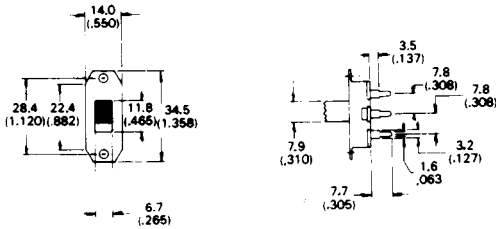


Specifications:
Current Rating: 6A-125V AC, 0.5A-125V DC
Initial Contact Resistance: 0.01 Ohm at 20mA DC
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS
Contact Material: Bronze - Silver plated
Terminal Material: Copper - Silver plated
Temperature Rating: -10°C to +104°C
Electrical Life: 6000 (min.) w/load...10,000 cycles (min.) w/no load
Terminal Type: Printed Circuit

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON-ON	Black Plastic	35-210



35-222



Standard Size Slide Switch

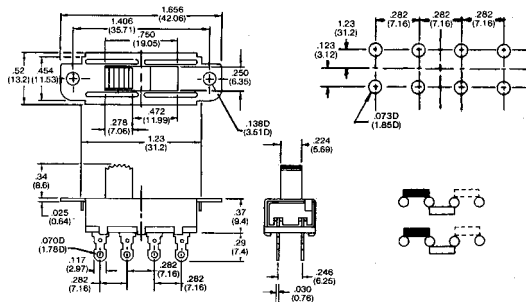


Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Initial Contact Resistance: 30 Milliohms (max.)
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS
Contact Material: Bronze - Silver plated
Terminal Material: Copper - Silver plated
Terminal Type: Printed Circuit

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON-ON	Black Plastic	35-222



35-240

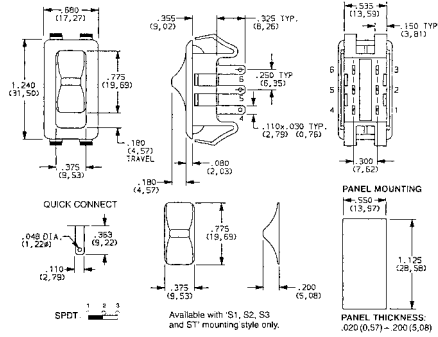


Standard Size Slide Switch



Specifications:
Current Rating: 3A-125V AC, 0.5A V DC
Initial Contact Resistance: 5 Milliohms (max.)
Insulation Resistance: 100 Megohms
Dielectric Strength: 1000V RMS
Contact Material: Bronze - Silver plated
Terminal Material: Copper - Silver plated
Temperature Rating: 65°C standard
Electrical Life: 6000 UL tested
Terminal Type: Printed Circuit

TYPE	ACTION	ACTUATOR	CAT. NO.
DP3T	ON OFF ON	Black Plastic	35-240



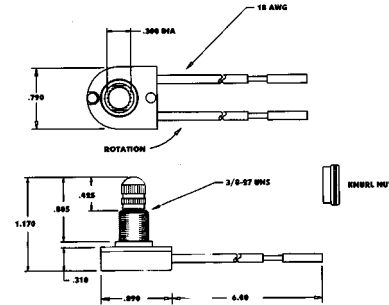
Standard Size Slide Switch



Specifications:
Current Rating: 15A-125V AC, 6A-250V AC
Initial Contact Resistance: 10 Milliohms or less @2-4V DC
Insulation Resistance: 10(9) Ohms
Dielectric Strength: 1,000 V RMS (min.)
Contact Material: Copper – Silver plate
Terminal Material: Copper – Silver plate
Electrical Life: 10,000 cycles
Mechanical Life: 100,000 cycles
Terminal Type: .250 Quick Connect
Mounting Hole: 1.125" x 0.550"

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON-ON	Red Cap	35-251
DPDT	ON-ON	Black Cap	35-252

ROTARY SWITCH KEYLOCK/DIP/CIRCUIT BREAKERS

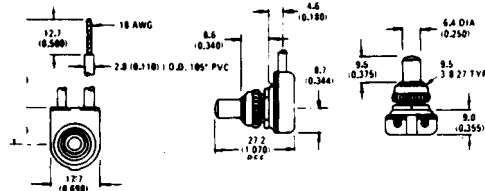


Rotary Switch



Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Insulation Resistance: 500 Megohms
Dielectric Strength: 1250V RMS
Contact Material: Copper Alloy
Terminal Material: 6" Wire Leads
Mounting Hole: 0.375"
Hardware: Finishing nut, Knurl nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	Metal	35-855

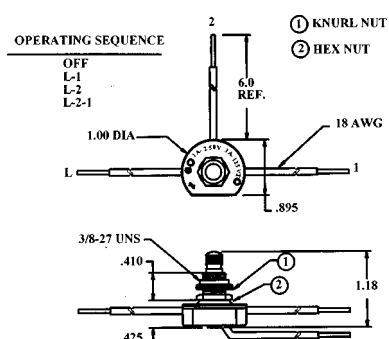


Rotary Appliance Switch



Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Initial Contact Resistance: 2.5V DC, 1A, 20 Milliohms or Less
Insulation Resistance: 500V DC, 100 Megohms or More
Dielectric Strength: 1000V RMS
Contact Material: Copper Alloy
Terminal Material: Copper
Terminal Type: No. 18 AWG 105°C Plastic, 6" Long, Stripped 1/2" and Tinned
Mounting Hole: 0.375"
Hardware: Hex, Finishing nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON - OFF	Black Plastic	35-856

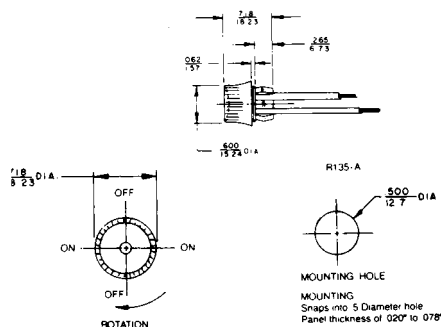


Rotary Switch



Specifications:
Current Rating: 6A-125V AC, 3A-250V AC
Insulation Resistance: 500 Megohms
Dielectric Strength: 1000V RMS
Contact Material: Copper Alloy
Terminal Material: 6" Wire Leads
Mounting Hole: 0.375"
Hardware: Hex nut, Finishing nut

TYPE	ACTION	ACTUATOR	CAT. NO.
SP3T	OFF ON ON ON	Metal	35-1857



Rotary Appliance Switch



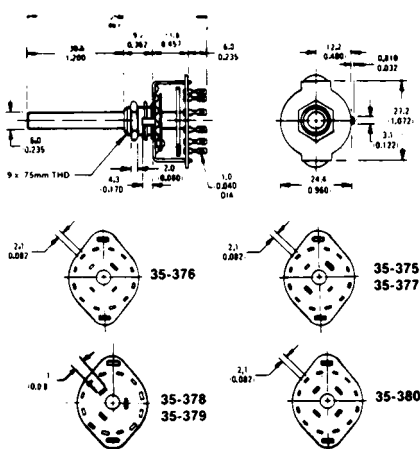
Specifications:
Current Rating: 3A 125VAC, 1.5A 250V AC
Initial Contact Resistance: 5 Megohms
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS
Contact Material: Brass – Nickel plate
Terminal Material: Wire Lead 6"
Terminal Type: Solder
Mounting Hole: 0.500" (0.375" for 35-3816)
Hardware: Hex nut, Lockring washer

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON OFF	White Plastic	35-859
SPST	ON OFF	Black Plastic	35-3816

NOTE: 35-3816 has threaded mounting bushing



35-375



Rotary Switches

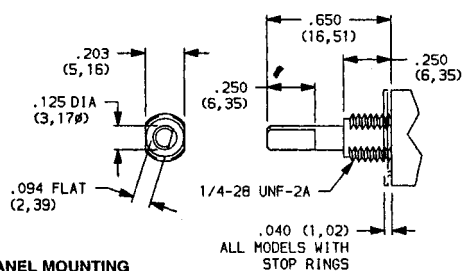
Specifications:
Current Rating: 0.3A - 125V AC
Initial Contact Resistance: 25 Milliohms @ 2-4V DC, 1A
Insulation Resistance: 1000 Megohms
Dielectric Strength: 500V AC RMS
Contact Material: Silver Plated Phosphor Bronze
Terminal Material: Silver Plated Phosphor Bronze
Terminal Type: Solder
Mounting Hole: 0.375"
Shaft and Bushing: Aluminum
Bracket: Steel, zinc plated
Hardware: 1 Hex, Stop locking

TYPE	POSITIONS	POLES	ACTUATOR	CAT. NO.
Shorting	6	2	1/4" Metal Shaft	35-375
Shorting	12	1	1/4" Metal Shaft	35-376
Non-Shorting	5	2	1/4" Metal Shaft	35-377
Non-Shorting	3	3	1/4" Metal Shaft	35-378
Shorting	4	2	1/4" Metal Shaft	35-379

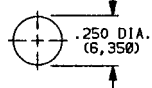
NOTE: Index = 30°



SP
35-1206



PANEL MOUNTING



DP
35-1224



Half-Inch Rotary Switches

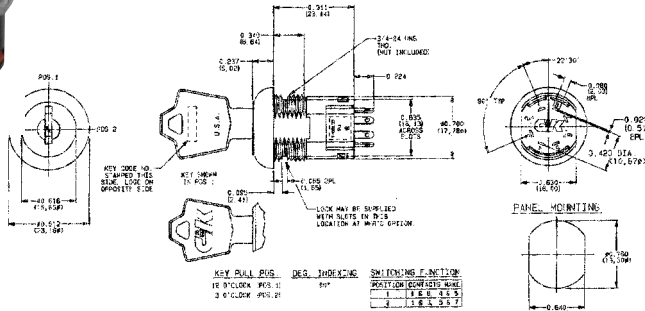


Specifications:
Current Rating: 6A Continuous; Switch: 250mA@125V AC or 28VDC-NON-SHORTING Contacts
Initial Contact Resistance: 20 Milliohms or less @ 2-4V DC
Insulation Resistance: 10(10) Ohms (min.)
Dielectric Strength: 600V AC RMS
Contact Material: Copper Alloy – Silver plated
Terminal Material: Copper Alloy – Silver plated
Temperature Rating: -30°C to +85°C
Electrical Life: 10,000 cycles @ 150mA, 125VAC or 28VDC
Terminal Type: Solder Lug/Panel Mount
Mounting Hole: 0.250"
Housing and Bushing: Zinc Alloy, Zinc Plated w/clear Chromate finish
Hardware: Hex nut, Stop locking

TYPE	POSITIONS	POLES	ACTUATOR	CAT. NO.
SP	12-No-Stops	1	1/2" Metal Shaft	35-1212
SP	6	1	1/2" Metal Shaft	35-1206
DP	6-No-Stops	2	1/2" Metal Shaft	35-1226
DP	4	2	1/2" Metal Shaft	35-1224



35-3192



Keylock Switch-4 Tumbler w/Detent

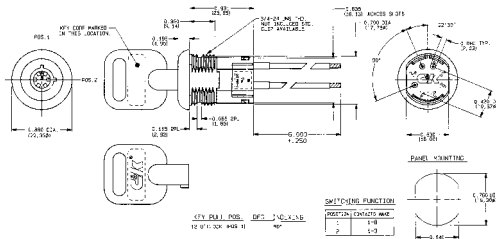


Specifications:
Current Rating: 4A-125V AC, 2A-250V AC, 4A-28VDC
Initial Contact Resistance: 10 Milliohms @ 2-4VDC
Insulation Resistance: 10(9) Ohms
Dielectric Strength: 1000V RMS
Contact Material: Copper – Silver plated
Terminal Material: Copper – Silver plated
Electrical Life: 10,000 cycles
Connected Terminals: Position 1: 1-8/4-5; Position 2: 1-3/5-7
Terminal Type: Socket
Indexing: 90°
Mounting Hole: 0.760"
Hardware: Mounting Hex nut/2 keys

TYPE	ACTION	ACTUATOR	CAT. NO.
DPDT	ON-ON Remove Key in Both Positions	Metal Key	35-3192



35-3193



Keylock Switch-6 Tumbler-Tubular Lock



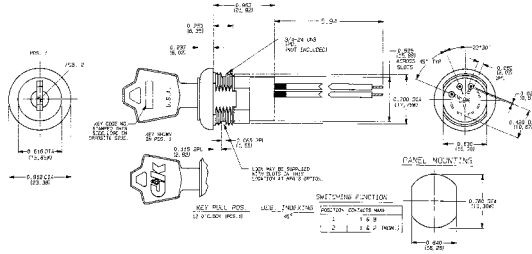
Specifications:
Current Rating: 4A-125V AC, 2A-250V AC, 4A-28V DC
Contact Resistance: 10 Milliohms @ 2-4VDC
Insulation Resistance: 10(9) Ohms
Dielectric Strength: 1000V RMS
Contact Material: Copper – Silver plated
Terminal Material: Copper – Silver plated
Connected Terminals: Position 1: 8-1; Position 2: 1-3
Electrical Life: 10,000 cycles
Terminal Type: 6" Wire Leads
Mounting Hole: 0.760" x 0.640"
Hardware: Mounting Hex nut, 2 Chrome plated keys (to order keys only #1110801-all keyed alike)

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON-ON Remove Key in Both Positions	Barrel Key	35-3193
SPDT	ON-ON Remove Key in Position 1	Barrel Key	35-3194

NOTE: Index = 90°



35-3195



Keylock Switch-4 Tumbler -Momentary

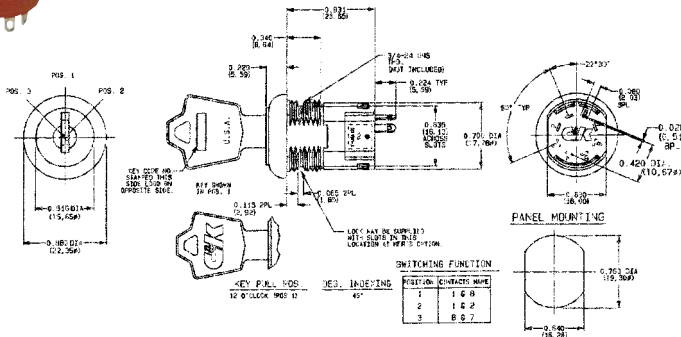


Specifications:
Current Rating: 4A-125V AC, 2A-250V AC, 4A-28V DC
Contact Resistance: 10 Milliohms @2-4VDC
Insulation Resistance: 10(9) Ohms
Dielectric Strength: 1000V RMS
Contact Material: Copper – Silver plated
Terminal Material: Copper – Silver plated
Electrical Life: 10,000 cycles
Connected Terminals: Position 1: 1-8; Position 2: 1-2
Terminal Type: 6" Wire Leads
Indexing: 45°
Mounting Hole: 0.760" x0.640"
Hardware: Mounting Hex nut, 2 keys

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON-(ON) Remove Key in Position 1	Metal Key	35-3195



35-3197



Keylock Switch-4 Tumbler -3 Position-w/Detent

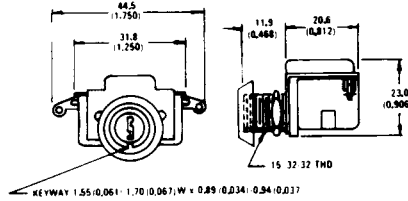


Specifications:
Current Rating: 4A-125V AC, 2A-250V AC, 4A-28VDC
Initial Contact Resistance: 10 Milliohms
Insulation Resistance: 10(9) Ohms
Dielectric Strength: 1000V RMS
Contact Material: Copper – Silver plated
Terminal Material: Copper – Silver plated
Electrical Life: 10,000 cycles
Connected Terminals: Position 1: 8-1; Position 2: 1-2; Position 3: 7-8
Terminal Type: Solder
Indexing: 45°
Mounting Hole: 0.760" x 0.640"
Hardware: Mounting Hex nut, 2 keys

TYPE	ACTION	ACTUATOR	CAT. NO.
SPDT	ON-ON-ON Remove Key in Position 1	Metal Key	35-3197



35-192



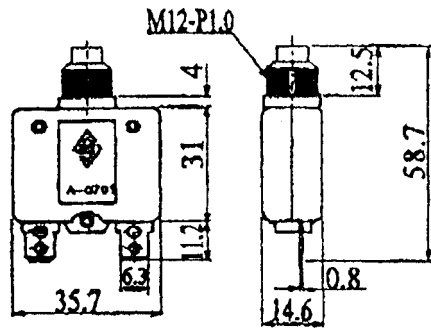
Keylock Switches



Specifications:
Current Rating: 6A-125V AC DC, 3A-250V DC
Initial Contact Resistance: 3-10 Milliohms
Insulation Resistance: 200 Megohms (min.)
Contact Material: Bronze – Silver plated
Terminal Material: Bronze – Silver plated
Temperature Rating: 0°F to 150°F(-17.8°C to +65.6°C)
Dielectric Strength: 1000 V RMS
Terminal Type: Solder
Mounting Hole: 0.500"
Hardware: Hex nut, Chamfered nut
 (to order keys only - #13-5496 (min.) 25 ea)

TYPE	ACTION	ACTUATOR	CAT. NO.
SPST	ON-OFF Remove Key in Off or On Position	Metal Key	35-192

SPECIAL NOTE: Ward-type lock – all keyed alike – 1 key furnished.



Circuit Breakers



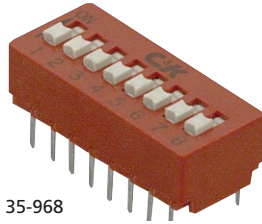
The circuit will remain disconnected until manually reset.
 Provides permanent protection in electrical equipment. All are UL approved and CSA certified.

Specifications:
Calibration: Will carry continuously 100% of rating. Will trip between 6-30 seconds at 200% of rated load at 25°C
Standard Rating: UL 3-20A @ 125/250VAC
Input Power: 50VDC/125VAC/250VAC
Dielectric Strength: Over 1500 VAC/1 (min.) RMS
Insulation Resistance: 100 Megohms.
Contact Endurance: 125VAC x 150% of rated current for 500 cycles
Interrupt Capacity: 1000 AMPS w/FUSE at 50VDC,
Terminals: 0.250" Quick Connect
Mounting Hole: 0.500"

RATING IN AMP	CAT. NO.	RATING IN AMP	CAT. NO.
3	35-2103	10	35-2110
4	35-2104	12	35-2112
5	35-2105	15	35-2115
6	35-2106	20	35-2120
7	35-2107	25	35-2125
8	35-2108	30	35-2130

SPECIAL NOTE: HP Rating @ 120V & 240V available upon request

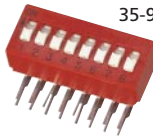
SWITCHES



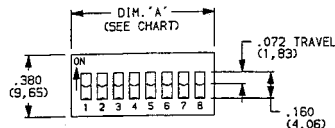
35-968



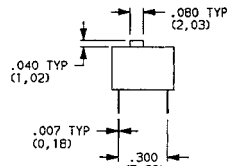
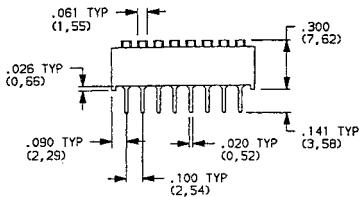
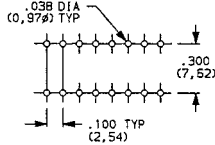
35-957



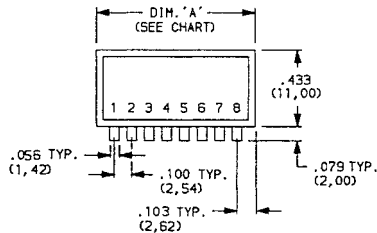
35-971



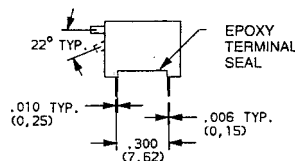
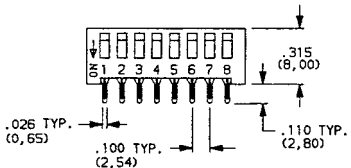
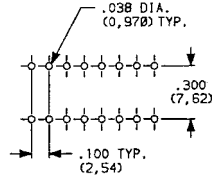
PC MOUNTING



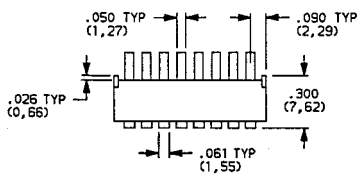
Part No. 35-968



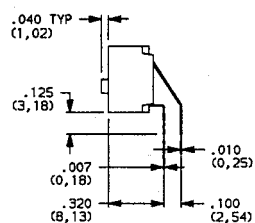
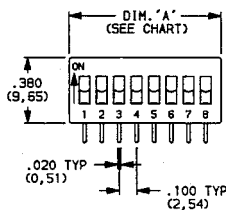
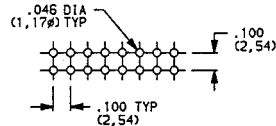
PC MOUNTING



Part No. 35-957



PC MOUNTING



Part No. 35-971

DIP Switches-Washable/Open Base

Specifications:

Contact Rating: Carry 100mA @50 V DC

Switch: 100mA @ 5VDC or 25mA max. @ 25VDC

Initial Contact Resistance: 50 Milliohms or less@2-4VDC,100mA

Insulation Resistance: 10(9) Ohms

Dielectric Strength: 500VRMS

Electrical & Mechanical Life: 10,000 (2,000 35-953/35-957)

Temperature Rating: -40°C to +85°C(-20°C to 60°C: 35-953/35-957)

Vibration Test: No contact opening more than 1 microsecond/no contact closure when exposed to vibration .06 in DA or 5g or less, from 10 to 55Hz and 10g from 55 to 500 Hz

Contacts: WE#1 = 69% gold - 25% silver - 6% palladium

(35-953/35-957: Gold over nickel over bronze)

Terminals: Phosphor bronze, w/ tin-lead alloy over nickel plate

(35-053/35-957: Bronze - Tin Plate

Solderability Test: Per MIL-STD-202F method 208D, or EIA RS-186 method 9 (1 hr. steam aging)

Wave Soldering: recommended @ 500oF solder temp.

Hand Solder: -30W @ 500oF, 10 sec. max/terminal.

All switch actuators must be in OFF position during soldering/cleaning

Base: Polybutylene Telephtalate UL 94V-0: 35-953/35-957: Epoxy terminal seal,removable tape actuator seal, splash resistant

POS.	DIM. A mm (in.)	CAT. NO.	
1	.180 (4.57)	35-961	
2	.280 (7.11)	35-962	
3	.380 (9.65)	35-963	
4	.480 (12.19)	35-964	
5	.580 (14.73)	35-965	
6	.680 (17.27)	35-966	
7	.780 (19.81)	35-967	
8	.880 (22.35)	35-968	
9	.980 (24.89)	35-969	
10	1.080 (27.43)	35-970	
12	1.280 (32.51)	35-974	
8	.880 (22.35)	Right Angle	35-971
4	.506 (12.85)	Side Actuated	35-953
8	.906 (23.00)	Side Actuated	35-957

GLOSSARY

ACTUATION FORCE

The force required to move the actuator of a switch from one position to another.

ACTUATOR

A movable part of the switch that causes a change in the electrical configuration of the switch - i.e., toggle, rocker, slider, plunger, etc.

ALTERNATE ACTION

Also known as 'Push-Push', Push to close the switch contacts, then push again to open the contacts.

ARCING

The flow of electric current between switch contacts during opening or closing of the contacts.

BREAK-BEFORE-MAKE

The movable contact breaks contact with one fixed contact before making contact with another fixed contact on actuation.

CONTACT RATING

The allowable current and voltage the switch contacts can carry during opening or closing. Ratings may be resistive, inductive or capacitive, or a combination of the three.

CONTACT RESISTANCE

The resistance, usually in milliohms, measured across a closed contact pair.

CYCLE

The complete sequence of indexing through all switch positions and returning to the original position.

DETENT

A mechanical stop that holds the contacts in a given position or prevents changing of the contact position at less than a specified actuation force.

DIELECTRIC STRENGTH

The ability of an insulator to withstand a voltage without arcing across its surface (also called Dielectric Withstanding Voltage or Breakdown Voltage).

DIP

Dual-in-line package commonly used for integrated circuits with 2 rows of terminals .300(apart and a pitch of .100(from terminal to terminal

DP (double pole)

A switch device that opens, closes or changes connection of two conductors in an electrical circuit.

DPDT (double pole-double throw)

A switch device that opens, closes or changes connection of two conductors in an electrical circuit and completes a circuit at both extreme positions of its actuator.

ELECTRICAL LIFE

The number of cycles of operation at a given electrical load that does not result in degradation of any electrical or mechanical parameter beyond the published end-of-life criteria.

INDUCTIVE LOAD

A load in which the initial current during contact closure is less than the steady-state current, and greater during contact opening. Current lags the voltage in inductive loads, characteristic of which is motors.

INSULATION RESISTANCE

The electrical resistance between insulated parts. This is usually measured at a specific voltage and measured in megohms.

LED

Light emitting diodes. They are used for long life and low power consuming illumination.

MAINTAINED ACTION

A position of the switch actuator that remains unchanged when the actuation force is removed. Also see Momentary.

MAKE-BEFORE-BREAK

The movable contact makes contact with a fixed contact before breaking contact with another fixed contact (or connects a second circuit before disconnecting the first).

MECHANICAL LIFE

The number of actuations of a switch without electrical load that does not result in degradation of parameters of the switch beyond published end-of-life criteria.

MOMENTARY ACTION

A switch position where the actuator returns to the starting position when the actuation force is removed. It is also called 'spring return'.

MOVABLE CONTACT

The contact moved by the actuator to or away from a fixed contact, therefore making or breaking the electrical circuits for the switch.

NORMALLY CLOSED

Normally closed contacts are closed when the actuator is in its un-actuated or 'free' position.

NORMALLY OPEN

Normally open contacts are open when the actuator is in its un-actuated or 'free' position.

OPERATING TEMPERATURE

The temperature range in which the switch may be operated.

OVERTRAVEL

The distance the actuator can be moved after the contacts make without causing damage to the switch.

POLE

The number of separate circuits that can be operated by a switch at any time. A single pole switch allows one closed circuit at a time, while a double pole switch allows two closed circuits at a time, etc.

PRETRAVEL

The distance that the switch actuator travels from rest position until the contacts make in another position.

QUICK-CONNECT TERMINAL

A flat tab or blade style terminal designed to accept push-on female wire connectors, thereby eliminating the need to solder the switch.

RESISTIVE LOAD

A load in which the voltage and current are in phase. Also see Capacitive Load, Inductive Load, Power Factor and Inrush.

SNAP ACTION

Fast transfer of contacts from one position to another that is usually independent of the speed of the actuator. These mechanisms generally employ over-center coil or leaf springs in pushbutton switches.

SP (single pole)

A device that opens, closes or changes connection of a single conductor in an electrical circuit.

SPST (single pole- single throw)

A switch that opens, closes or completes a circuit at only one of the extreme positions of its actuator.

TERMINAL

The metal leads (or terminals) coming out of the switch body that are used to connect the switch to the electrical circuit(s). Many different configurations are used, including solder lug, quick-connect, printed circuit, etc.

THROWS

Number of circuits that can be controlled by one pole of a switch. In a single pole-double throw switch, only one circuit can be connected at a time, but there are two possible circuits (throws) that can be made.

TRAVEL

The total distance the actuator can move to change the electrical position.

WASHABLE

A generic term applied to printed circuit mounting switches indicating compatibility with various cleaning processes used after soldering. These switches are sealed to prevent the entry of contaminants into the switch case.

WAVE SOLDERING

A method of soldering in which a wave of molten solder contacts the component terminals on the printed circuit board as the board with the components is automatically conveyed through the wave.

PANEL LAMPS/LED'S



Panel lamps are widely used in every facet of life today. We have indicators in our homes, industry, automobiles, and the toys we give our children. With the importance of these items GC Electronics has chosen to add a variety of panel lamps & LED's to our extensive listing of commercial, and MRO products.

In the following pages you will discover an offering of the most popular and widely used incandescent and LED products in the industry today.

The panel lamps in this brochure include several types of snap-in mounts in round, square, and rectangular shaped lamps. They are offered 6 Volt, 12 Volt, 24 Volt, and 125 Volt styles. There is a wide variety of colors to choose as well as several different lens shapes.

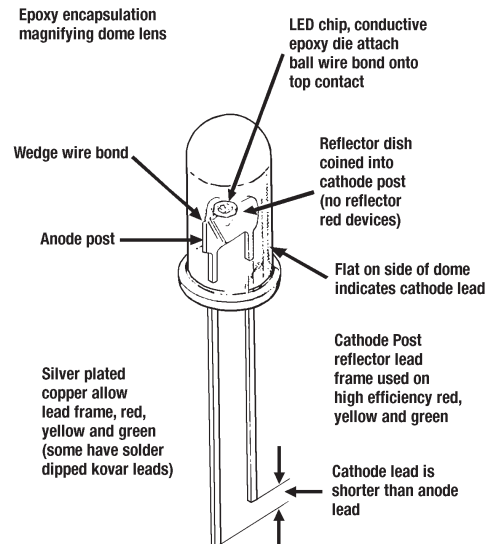
INCANDESCENT PANEL LAMPS



The lamps offered have incandescent bulbs for voltages of 6V, 12V, and 24V, and the 125V lamps have neon bulbs. In addition, the 125V lamps have UIL listed.

LED'S

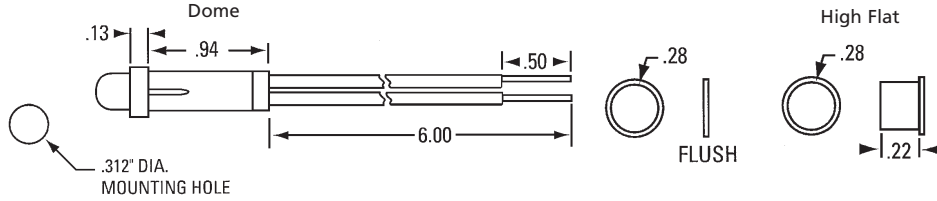
The LED's (light emitting diode) offered in this catalog are available in discrete devices (LED's without housings) and lamps which include housings and/or mounting hardware. The actual LED consists of four components: a lead frame, a dice (or LED chip), and a fine wire bond which is all encapsulated in an epoxy base. (See Fig. 1) Depending on the material used for the dice (or chip), the observer will see a monochromatic red, orange, yellow, green, or blue light. Since there are no moving parts or loose components, it is considered to be a solid state device and very reliable under shock and vibration conditions.



INCANDESCENT PANEL LAMPS

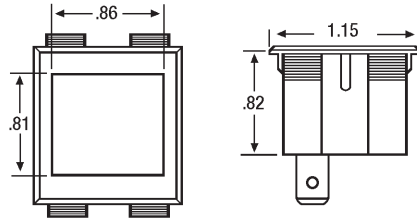
Press-to-Fit Panel Lamps

These press-to-fit panel lamps fit into a .312" mounting hole, and are available in several colors and voltages. They are made from Nylon material and have 18 AWG 6" wire leads.



CAT. NO.	LAMP VOLTAGE	LAMP CURRENT	LAMP TYPE	LAMP TERMINATION	LAMP LIFE	LAMP SHAPE	LAMP COLOR
38-3540-50	125V		C2A-5 Neon	Wire Leads	25,000	Flush	Clear
38-3540-12	12V/14V	.08A	#35	Wire Leads	50,000	Flush	Clear
38-3542-06	6.3V	.04A	#32	Wire Leads	50,000	Flush	Red
38-3542-50	125V		C2A-5 Neon	Wire Leads	25,000	Flush	Red
38-3542-12	12V/14V	.08A	#35	Wire Leads	50,000	Flush	Red
38-3543-06	6V	.04A	#32	Wire Leads	50,000	Flush	Amber
38-3543-50	125V		C2A-5 Neon	Wire Leads	25,000	Flush	Amber
38-3543-12	12V/14V	.08A	#35	Wire Leads	50,000	Flush	Amber
38-3545-50	125V		C2A-5 Neon	Wire Leads	25,000	Flush	Green
38-3545-12	12V/14V	.08A	#35	Wire Leads	50,000	Flush	Green
38-3546-50	125V		C2A-5 Neon	Wire Leads	25,000	Flush	Blue
38-3546-12	12V/14V	.08A	#35	Wire Leads	50,000	Flush	Blue
38-3549-50	125V		C2A-5 Neon	Wire Leads	25,000	Flush	White
38-3549-12	12V/14V	.08A	#35	Wire Leads	50,000	Flush	White
38-3550-50	125V		C2A-5 Neon	Wire Leads	25,000	High Flat	Clear
38-3550-12	12V/14V	.08A	#35	Wire Leads	50,000	High Flat	Clear
38-3552-50	125V		C2A-5 Neon	Wire Leads	25,000	High Flat	Red
38-3552-12	12V/14V	.08A	#35	Wire Leads	50,000	High Flat	Red
38-3553-50	125V		C2A-5 Neon	Wire Leads	25,000	High Flat	Amber
38-3553-12	12V/14V	.08A	#35	Wire Leads	50,000	High Flat	Amber
38-3555-50	125V		C2A-5 Neon	Wire Leads	25,000	High Flat	Green
38-3555-12	12V/14V	.08A	#35	Wire Leads	50,000	High Flat	Green
38-3556-50	125V		C2A-5 Neon	Wire Leads	25,000	High Flat	Blue
38-3556-12	12V/14V	.08A	#35	Wire Leads	50,000	High Flat	Blue

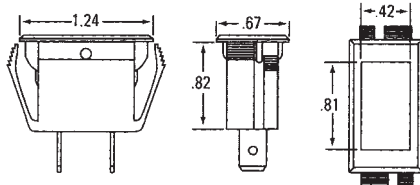
PANEL LAMPS/LED'S



Large Square Snap-in Panel Lamps

These press-to-fit panel lamps fit into a panel cutout 1" x 1.125" with panel thickness .020" x .025" and are available in several colors and voltages. They are made from Nylon material and have 18 AWG 6" wire leads.

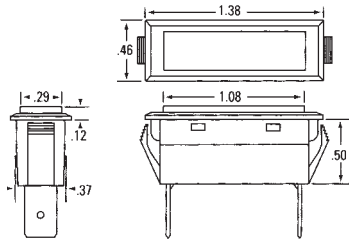
CAT. NO.	LAMP VOLTAGE	LAMP CURRENT	LAMP TYPE	LAMP TERMINATION	LAMP LIFE	LAMP SHAPE	LAMP COLOR
38-1132-50	125V		C2A-5 Neon	Wire Leads	25,000	Square	Red
38-1132-12	12V/14V	.08A	#35	Wire Leads	50,000	Square	Red
38-1133-50	125V		C2A-5 Neon	Wire Leads	25,000	Square	Amber
38-1133-12	12V/14V	.08A	#35	Wire Leads	50,000	Square	Amber
38-1135-50	125V		C2A-5 Neon	Wire Leads	25,000	Square	Green
38-1135-12	12V/14V	.08A	#35	Wire Leads	50,000	Square	Green
38-1139-50	125V		C2A-5 Neon	Wire Leads	25,000	Square	White
38-1139-12	12V/14V	.08A	#35	Wire Leads	50,000	Square	White



Rectangular Snap-in Panel Lamps

This is the most popular of the rectangular lamps used today. They are used in a large variety of appliances and automotive applications. The device snaps into a panel cutout .550" x 1.125" with a minimum panel thickness of .020" x .025". All lamps are made of a Nylon material with 18 AWG 6" wire leads.

CAT. NO.	LAMP VOLTAGE	LAMP CURRENT	LAMP TYPE	LAMP TERMINATION	LAMP LIFE	LAMP SHAPE	LAMP COLOR
38-1022-50	125V		C2A-5 Neon	Wire Leads	25,000	Rectangular	Red
38-1022-12	12V/14V	.08A	#35	Wire Leads	50,000	Rectangular	Red
38-1023-50	125V		C2A-5 Neon	Wire Leads	25,000	Rectangular	Amber
38-1023-12	12V/14V	.08A	#35	Wire Leads	50,000	Rectangular	Amber
38-1025-50	125V		C2A-5 Neon	Wire Leads	25,000	Rectangular	Green
38-1025-12	12V/14V	.08A	#35	Wire Leads	50,000	Rectangular	Green
38-1029-50	125V		C2A-5 Neon	Wire Leads	25,000	Rectangular	White
38-1029-12	12V/14V	.08A	#35	Wire Leads	50,000	Rectangular	White

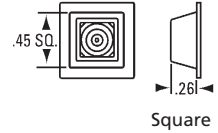
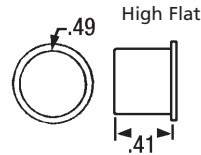
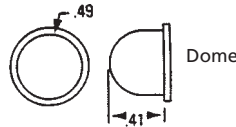
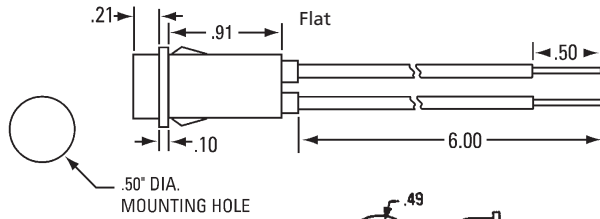


3/8 Snap-in Rectangular Panel Lamps

A large lamp for use in tight places. The low profile rectangular panel lamp has many uses. The device snaps into a panel cutout of .375" x 1.28" and is ideal for cramped spaces with their .5" depth. The body of the lamp is made of Nylon and comes with 6" 18 AWG wire leads.

CAT. NO.	LAMP VOLTAGE	LAMP CURRENT	LAMP TYPE	LAMP TERMINATION	LAMP LIFE	LAMP SHAPE	LAMP COLOR
38-3002-50	125V		C2A-5 Neon	Wire Leads	25,000	Rectangular	Red
38-3003-50	125V		C2A-5 Neon	Wire Leads	25,000	Rectangular	Amber
38-3005-50	125V		C2A-5 Neon	Wire Leads	25,000	Rectangular	Green

PANEL LAMPS/LED'S



1/2" Press-to-Fit Panel Lamps

These are press-to-fit panel lamps for a .500" mounting hole and are available in several colors and voltages. They are made from Nylon material and have 18 AWG 6" wire leads.

CAT. NO.	LAMP VOLTAGE	LAMP CURRENT	LAMP TYPE	LAMP TERMINATION	LAMP LIFE	LAMP SHAPE	LAMP COLOR
38-5452-50	125V		C2A-5 Neon	Wire Leads	25,000	Square	Red
38-5452-12	12V/14V	.08A	#35	Wire Leads	50,000	Square	Red
38-5453-06	6.3V	.04A	#32	Wire Leads	50,000	Square	Amber
38-5453-50	125V		C2A-5 Neon	Wire Leads	25,000	Square	Amber
38-5453-12	12V/14V	.08A	#35	Wire Leads	50,000	Square	Amber
38-5455-06	6.3V	.04A	#32	Wire Leads	50,000	Square	Green
38-5455-50	125V		C2A-5 Neon	Wire Leads	25,000	Square	Green
38-5455-12	12V/14V	.08A	#35	Wire Leads	50,000	Square	Green
38-5459-06	6.3V	.04A	#32	Wire Leads	50,000	Square	White
38-5459-50	125V		C2A-5 Neon	Wire Leads	25,000	Square	White
38-5459-12	12V/14V	.08A	#35	Wire Leads	50,000	Square	White
38-5462-06	6.3V	.04A	#32	Wire Leads	50,000	High Flat	Red
38-5462-50	125V		C2A-5 Neon	Wire Leads	25,000	High Flat	Red
38-5462-12	12V/14V	.08A	#35	Wire Leads	50,000	High Flat	Red
38-5463-06	6.3V	.04A	#32	Wire Leads	50,000	High Flat	Amber
38-5463-50	125V		C2A-5 Neon	Wire Leads	25,000	High Flat	Amber
38-5463-12	12V/14V	.08A	#35	Wire Leads	50,000	High Flat	Amber
38-5465-06	6.3V	.04A	#32	Wire Leads	50,000	High Flat	Green
38-5465-50	125V		C2A-5 Neon	Wire Leads	25,000	High Flat	Green
38-5465-12	12V/14V	.08A	#35	Wire Leads	50,000	High Flat	Green
38-5469-06	6.3V	.04A	#32	Wire Leads	50,000	High Flat	White
38-5469-50	125V		C2A-5 Neon	Wire Leads	25,000	High Flat	White
38-5469-12	12V/14V	.08A	#35	Wire Leads	50,000	High Flat	White
38-5490-50	125V		C2A-5 Neon	Wire Leads	25,000	Large Dome	Clear
38-5492-06	6.3V	.04A	#32	Wire Leads	50,000	Large Dome	Red
38-5492-50	125V		C2A-5 Neon	Wire Leads	25,000	Large Dome	Red
38-5492-12	12V/14V	.08A	#35	Wire Leads	50,000	Large Dome	Red
38-5493-06	6.3V	.04A	#32	Wire Leads	50,000	Large Dome	Amber
38-5493-50	125V		C2A-5 Neon	Wire Leads	25,000	Large Dome	Amber
38-5493-12	12V/14V	.08A	#35	Wire Leads	50,000	Large Dome	Amber
38-5495-06	6.3V	.04A	#32	Wire Leads	50,000	Large Dome	Green
38-5495-50	125V		C2A-5 Neon	Wire Leads	25,000	Large Dome	Green
38-5495-12	12V/14V	.08A	#35	Wire Leads	50,000	Large Dome	Green
38-5496-06	6.3V	.04A	#32	Wire Leads	50,000	Large Dome	Blue
38-5496-50	125V		C2A-5 Neon	Wire Leads	25,000	Large Dome	Blue
38-5496-12	12V/14V	.08A	#35	Wire Leads	50,000	Large Dome	Blue
38-5499-06	6.3V	.04A	#32	Wire Leads	50,000	Large Dome	White
38-5499-50	125V		C2A-5 Neon	Wire Leads	25,000	Large Dome	White
38-5499-12	12V/14V	.08A	#35	Wire Leads	50,000	Large Dome	White

STANDARD LED'S

GC Electronics offers a vast line of both standard and custom discrete (without mounting hardware) LED products for the lighting industry. Since LED's offer a very dependable source of light in a vast array of package sizes and configurations they can be used for most applications. LED's are a current limiting device and work off voltages. If operating voltages are higher than typically needed, than a resistor must be used.



3mm (T-1)

These devices are 3mm in diameter, which is .125"

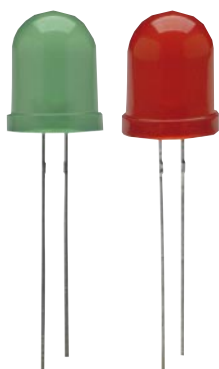
Cat. No.	Forward Current (If) ma	Max Forward Voltage	Typical Forward Voltage	LED Emitting Color	Case Type	View Angle	LED Size
39-4301	20	2.5V	2.0V	High Red	Diffused	60	3mm (T-1)
39-4302	10	2.5V	2.0V	Red	Diffused	60	3mm (T-1)
39-4303	10	2.5V	2.0V	Amber	Diffused	60	3mm (T-1)
39-4304	10	2.5V	2.0V	Yellow	Diffused	60	3mm (T-1)
39-4305	20	2.5V	2.0V	Green	Diffused	60	3mm (T-1)
39-4391	20	2.5V	2.0V	High Red	Diffused	60	3mm (T-1)
39-4392	10	2.5V	2.0V	Red	Diffused	60	3mm (T-1)
39-4393	10	2.5V	2.0V	Orange	Diffused	60	3mm (T-1)
39-4394	10	2.5V	2.0V	Yellow	Diffused	60	3mm (T-1)
39-4395	20	2.5V	2.0V	Green	Diffused	60	3mm (T-1)



5mm (T-1-3/4)

These devices are 5mm in diameter, which is .219"

Cat. No.	Forward Current (If) ma	Max Forward Voltage	Typical Forward Voltage	LED Emitting Color	Case Type	View Angle	LED Size
39-3501	20	2.5V	2.0V	High Red	Diffused	60	5mm
39-3502	10	2.5V	2.0V	Red	Diffused	60	5mm
39-3504	10	2.5V	2.0V	Yellow	Diffused	60	5mm
39-3505	10	2.5V	2.0V	Green	Diffused	60	5mm
39-3506	20	2.5V	2.0V	Blue	Diffused	60	5mm
39-3512	20	2.5V	2.0V	Super Red	Diffused	60	5mm
39-3513	10	2.5V	2.0V	Pure Orange	Diffused	60	5mm
39-3515	10	2.5V	2.0V	Super Green	Diffused	60	5mm



10mm

These devices are 10mm in diameter, which is .433"

Cat. No.	Forward Current (If) ma	Max Forward Voltage	Typical Forward Voltage	LED Emitting Color	Case Type	View Angle	LED Size
39-3182	20	2.5V	2.0V	High Red	Diffused	60	10mm
39-3183	10	2.5V	2.0V	Pure Orange	Diffused	60	10mm
39-3184	10	2.5V	2.0V	Yellow	Diffused	60	10mm
39-3185	20	2.5V	2.0V	Green	Diffused	60	10mm

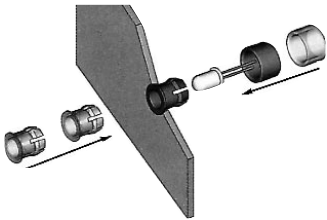
PANEL LAMPS/LED'S



Rectangular

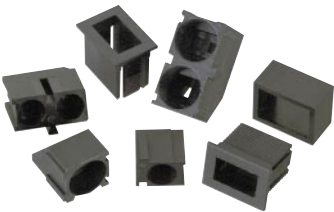
These devices are 2mm x 5mm in size, which is .079" x .197"

Cat. No.	Forward Current (If) ma	Max Forward Voltage	Typical Forward Voltage	LED Emitting Color	Case Type	View Angle	LED Size
39-3011	20	2.5V	2.0V	High Red	Diffused	110	2mm x 5mm
39-3012	10	2.5V	2.0V	Red	Diffused	110	2mm x 5mm
39-3013	10	2.5V	2.0V	Pure Orange	Diffused	110	2mm x 5mm
39-3014	10	2.5V	2.0V	Yellow	Diffused	110	2mm x 5mm
39-3015	20	2.5V	2.0V	Green	Diffused	110	2mm x 5mm
39-3111	20	2.5V	2.0V	Super Red	Diffused	110	2mm x 5mm



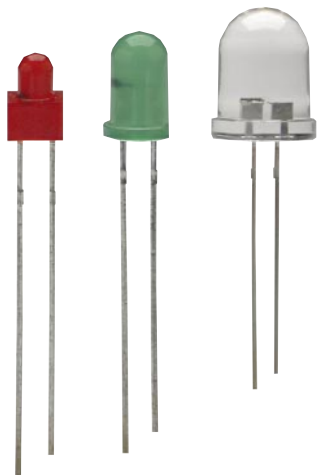
Snap-in Mounting Hardware for Panel Mount LED's

Cat. No.	LED Size	Cat. No.	LED Size
39-105	5mm (T-1-3/4)	39-130	3mm (T-1)
39-150	5mm (T-1-3/4)	39-230	3mm (T-1)
39-205	5mm (T-1-3/4)	39-901	10mm
39-250	5mm (T-1-3/4)		



Molded and Stackable LED Holders for 90° Display Mounting

Cat. No.	LED Size	No. of LED's
39-132	3mm (T-1)	1
39-232	3mm (T-1)	2
39-152	5mm (T-1)	1
39-252	5mm (T-1)	2



Blinking LED's

The blinking LED is designed to flash on/off at regular intervals depending upon the operating voltage. The frequency of the flashing ranges from 2.5Hz to 1.5Hz. The higher the operating voltage, the slower it flashes.

Cat. No.	Forward Current (If) ma	Max Forward Voltage	Typical Forward Voltage	LED Emitting Color	Case Type	View Angle	LED Size
39-6161	20	2.5V	2.0V	Blinking High Red	Diffused	60	3mm (T-1)
39-6162	20	2.5V	2.0V	Blinking Red	Diffused	60	3mm (T-1)
39-6165	20	2.5V	2.0V	Blinking Green	Diffused	60	3mm (T-1)
39-6501	10	2.5V	2.0V	Blinking High Red	Diffused	60	5mm (T-1.75)
39-6502	20	2.5V	2.0V	Blinking Red	Diffused	60	5mm (T-1.75)
39-6511	20	2.5V	2.0V	Blinking Super Red	Diffused	60	5mm (T-1.75)
39-6514	10	2.5V	2.0V	Blinking Yellow	Diffused	60	5mm (T-1.75)
39-6515	20	2.5V	2.0V	Blinking Green	Diffused	60	5mm (T-1.75)
39-6182	20	2.5V	2.0V	Blinking Super Red	Clear	40	10mm
39-6185	20	2.5V	2.0V	Blinking Green	Diffused	60	10mm

PANEL LAMPS/LED'S



B-Color LED's

The LED's emit two different colors of light depending on the way the voltage is applied to the device. These are available in both two (2) legged and three (3) legged versions. With the three (3) legged models, if voltage is applied from both directions at the same time, a third color is visible.

Cat. No.	Forward/Rev Current (If) ma	Max Forward Voltage	Typical Forward Voltage	LED Emitting Color	Case Type	View Angle	LED Size
39-7324	20/10	2.5V	2.0V	High Red/Yellow	Diffused	60	3mm (T-1)
39-7325	20/20	2.5V	2.0V	High Red/Green	Diffused	60	3mm (T-1)
39-7354	20/10	2.5V	2.0V	Green/Yellow	Diffused	60	3mm (T-1)
39-7524	20/10	2.5V	2.0V	High Red/Yellow	Diffused	60	5mm (T-1.75)
39-7525	20/20	2.5V	2.0V	High Red/Green	Diffused	60	5mm (T-1.75)
39-7554	20/10	2.5V	2.0V	Green/Yellow	Diffused	60	5mm (T-1.75)
39-9524	20/10	2.5V	2.0V	High Red/Yellow	Diffused	60	5mm (T-1.75)
39-9525	20/20	2.5V	2.0V	High Red/Green	Diffused	60	5mm (T-1.75)
39-9554	20/10	2.5V	2.0V	Green/Yellow	Diffused	60	5mm (T-1.75)
39-9125	20/20	2.5V	2.0V	High Red/Green	Diffused	50	10mm

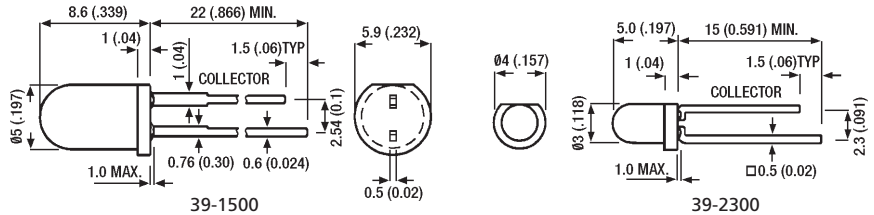
Infra-Red Emitters

The infrared emitting LED's are widely used in transmitters and remote control devices.

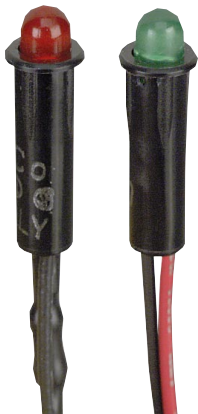
Cat. No.	Forward Current (If) ma	Max Forward Voltage	Typical Forward Voltage	LED Emitting Color	Case Type	View Angle	LED Size
39-3507	20	1.5V	1.2V	Infrared	Transparent	30	5mm (T-1.75)
39-3508	20	1.5V	1.2V	Infrared	Transparent	30	5mm (T-1.75)
39-4355	20	1.7V	1.4V	Infrared	Transparent	30	3mm (T-1)

Phototransistors

An electronic switch, that when activated, allows current to pass through the device.

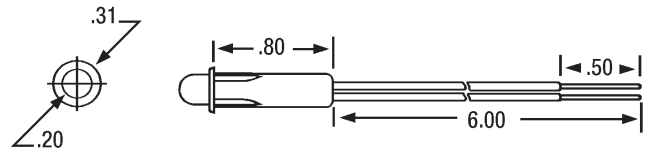


Cat. No.	Collector/Emitter Breakdown Voltage	Emitter/Collector Breakdown Voltage	On State Collector Current	LED Emitting Color	Case Type	View Angle	LED Size
39-1500	30V	5V	2ma-8ma	Photo Transistor	Clear	n/a	5mm (T-1.75)
39-2300	30V	5V	2ma-8ma	Photo Transistor	Clear	n/a	3mm (T-1)



Press-to-Fit .25" Hole Panel Lamps

These Press-to-fit panel lamps fit into a .25" mounting hole and are available in several colors and voltages. They are made from Nylon material and have 24 AWG 6" wire leads. These devices have current limiting resistors in the housing.

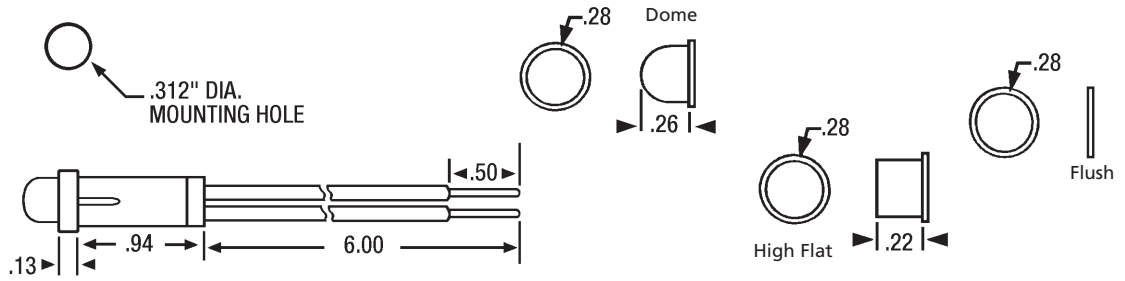


Cat. No.	Forward Current (If) ma	Operating Voltage	Resister Included	LED Emitting Color	Mounting Type	LED/Lamp Size
39-1752-06	10	5V/6V	Yes	Red	Snap-in	5mm (T-1-3/4)
39-1752-12	10	12V/12V	Yes	Red	Snap-in	5mm (T-1-3/4)
39-1752-24	10	24V/28V	Yes	Red	Snap-in	5mm (T-1-3/4)
39-1753-06	10	5V/6V	Yes	Amber	Snap-in	5mm (T-1-3/4)
39-1753-12	10	12V/12V	Yes	Amber	Snap-in	5mm (T-1-3/4)
39-1753-24	10	24V/28V	Yes	Amber	Snap-in	5mm (T-1-3/4)
39-1755-06	10	5V/6V	Yes	Green	Snap-in	5mm (T-1-3/4)
39-1755-12	10	12V/12V	Yes	Green	Snap-in	5mm (T-1-3/4)
39-1755-24	10	24V/28V	Yes	Green	Snap-in	5mm (T-1-3/4)

PANEL LAMPS/LED'S

Press-to-Fit .312" Hole Panel Lamps

These Press-to-fit panel lamps fit into a .312" mounting hole and are available in several colors and voltages. They are made from Nylon material and have 18 AWG 6" wire leads. These devices have current limiting resistors in the housing.



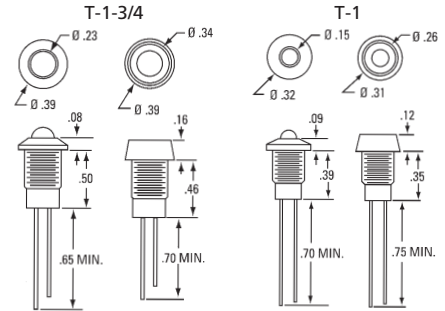
Cat. No.	Forward Current (If) ma	Operating Voltage	Resister Included	LED Emitting Color	Mounting Type	LED/Lamp Size
39-3542-06	10	5V/6V	Yes	Red	Flush Lens	5mm (T-1-3/4)
39-3542-12	10	12V/14V	Yes	Red	Flush Lens	5mm (T-1-3/4)
39-3542-28	10	24V/28V	Yes	Red	Flush Lens	5mm (T-1-3/4)
39-3543-06	10	5V/6V	Yes	Amber	Flush Lens	5mm (T-1-3/4)
39-3543-12	10	12V/14V	Yes	Amber	Flush Lens	5mm (T-1-3/4)
39-3543-28	10	24V/28V	Yes	Amber	Flush Lens	5mm (T-1-3/4)
39-3545-06	10	5V/6V	Yes	Green	Flush Lens	5mm (T-1-3/4)
39-3545-12	10	12V/14V	Yes	Green	Flush Lens	5mm (T-1-3/4)
39-3545-28	10	24V/28V	Yes	Green	Flush Lens	5mm (T-1-3/4)
39-3552-06	10	5V/6V	Yes	Red	High Flat Lens	5mm (T-1-3/4)
39-3552-12	10	12V/14V	Yes	Red	High Flat Lens	5mm (T-1-3/4)
39-3552-28	10	24V/28V	Yes	Red	High Flat Lens	5mm (T-1-3/4)
39-3553-06	10	5V/6V	Yes	Amber	High Flat Lens	5mm (T-1-3/4)
39-3553-12	10	12V/14V	Yes	Amber	High Flat Lens	5mm (T-1-3/4)
39-3553-28	10	24V/28V	Yes	Amber	High Flat Lens	5mm (T-1-3/4)
39-3555-06	10	5V/6V	Yes	Green	High Flat Lens	5mm (T-1-3/4)
39-3555-12	10	12V/14V	Yes	Green	High Flat Lens	5mm (T-1-3/4)
39-3555-28	10	24V/28V	Yes	Green	High Flat Lens	5mm (T-1-3/4)
39-3562-06	10	5V/6V	Yes	Red	Dome Lens	5mm (T-1-3/4)
39-3562-12	10	12V/14V	Yes	Red	Dome Lens	5mm (T-1-3/4)
39-3562-28	10	24V/28V	Yes	Red	Dome Lens	5mm (T-1-3/4)
39-3563-06	10	5V/6V	Yes	Amber	Dome Lens	5mm (T-1-3/4)
39-3563-12	10	12V/14V	Yes	Amber	Dome Lens	5mm (T-1-3/4)
39-3563-28	10	24V/28V	Yes	Amber	Dome Lens	5mm (T-1-3/4)
39-3565-06	10	5V/6V	Yes	Green	Dome Lens	5mm (T-1-3/4)
39-3565-12	10	12V/14V	Yes	Green	Dome Lens	5mm (T-1-3/4)
39-3565-28	10	24V/28V	Yes	Green	Dome Lens	5mm (T-1-3/4)

PANEL LAMPS/LED'S



Bezel Mounted LED Panel Lamps

The Bezel mounts are available in several styles for both T-1 (3mm) and T-1-3/4 (5mm) sizes. The T-1 size uses a mounting hole of .24" and the T-1-3/4 uses .31" diameter hole. All devices greater than 2V have current limiting resistor mounted in the lead and have 26 AWG wire leads.



Cat. No.	Forward Current (If) ma	Operating Voltage	Resister Included	LED Emitting Color	Mounting Type	LED/Lamp Size
39-4612-05	10	5V/6V	Yes	Red	Recess Chrome	3mm (T-1)
39-4612-12	10	12V/14V	Yes	Red	Recess Chrome	3mm (T-1)
39-4614-05	10	5V/6V	Yes	Yellow	Recess Chrome	3mm (T-1)
39-4614-12	10	12V/14V	Yes	Yellow	Recess Chrome	3mm (T-1)
39-4615-05	10	5V/6V	Yes	Green	Recess Chrome	3mm (T-1)
39-4615-12	10	12V/14V	Yes	Green	Recess Chrome	3mm (T-1)
39-5612-05	10	5V/6V	Yes	Red	Recess Chrome	5mm (T-1-3/4)
39-5612-12	10	12V/14V	Yes	Red	Recess Chrome	5mm (T-1-3/4)
39-5614-05	10	5V/6V	Yes	Yellow	Recess Chrome	5mm (T-1-3/4)
39-5614-12	10	12V/14V	Yes	Yellow	Recess Chrome	5mm (T-1-3/4)
39-5615-05	10	5V/6V	Yes	Green	Recess Chrome	5mm (T-1-3/4)
39-5615-12	10	12V/14V	Yes	Green	Recess Chrome	5mm (T-1-3/4)
39-4622-05	10	5V/6V	Yes	Red	Recess Black	3mm (T-1)
39-4622-12	10	12V/14V	Yes	Red	Recess Black	3mm (T-1)
39-4624-05	10	5V/6V	Yes	Yellow	Recess Black	3mm (T-1)
39-4624-12	10	12V/14V	Yes	Yellow	Recess Black	3mm (T-1)
39-4625-05	10	5V/6V	Yes	Green	Recess Black	3mm (T-1)
39-4625-12	10	12V/14V	Yes	Green	Recess Black	3mm (T-1)
39-5622-05	10	5V/6V	Yes	Red	Recess Black	5mm (T-1-3/4)
39-5622-12	10	12V/14V	Yes	Red	Recess Black	5mm (T-1-3/4)
39-5624-05	10	5V/6V	Yes	Yellow	Recess Black	5mm (T-1-3/4)
39-5624-12	10	12V/14V	Yes	Yellow	Recess Black	5mm (T-1-3/4)
39-5625-05	10	5V/6V	Yes	Green	Recess Black	5mm (T-1-3/4)
39-5625-12	10	12V/14V	Yes	Green	Recess Black	5mm (T-1-3/4)
39-4632-05	10	5V/6V	Yes	Red	Dome Chrome	3mm (T-1)
39-4632-12	10	12V/14V	Yes	Red	Dome Chrome	3mm (T-1)
39-4634-05	10	5V/6V	Yes	Yellow	Dome Chrome	3mm (T-1)
39-4634-12	10	12V/14V	Yes	Yellow	Dome Chrome	3mm (T-1)
39-4635-05	10	5V/6V	Yes	Green	Dome Chrome	3mm (T-1)
39-4635-12	10	12V/14V	Yes	Green	Dome Chrome	3mm (T-1)
39-5632-05	10	5V/6V	Yes	Red	Dome Chrome	5mm (T-1-3/4)
39-5632-12	10	12V/14V	Yes	Red	Dome Chrome	5mm (T-1-3/4)
39-5634-05	10	5V/6V	Yes	Yellow	Dome Chrome	5mm (T-1-3/4)
39-5634-12	10	12V/14V	Yes	Yellow	Dome Chrome	5mm (T-1-3/4)
39-5635-05	10	5V/6V	Yes	Green	Dome Chrome	5mm (T-1-3/4)
39-5635-12	10	12V/14V	Yes	Green	Dome Chrome	5mm (T-1-3/4)
39-4642-05	10	5V/6V	Yes	Red	Dome Black	3mm (T-1)
39-4642-12	10	12V/14V	Yes	Red	Dome Black	3mm (T-1)
39-4644-05	10	5V/6V	Yes	Yellow	Dome Black	3mm (T-1)
39-4644-12	10	12V/14V	Yes	Yellow	Dome Black	3mm (T-1)
39-4645-05	10	5V/6V	Yes	Green	Dome Black	3mm (T-1)
39-4645-12	10	12V/14V	Yes	Green	Dome Black	3mm (T-1)
39-5642-05	10	5V/6V	Yes	Red	Dome Black	5mm (T-1-3/4)
39-5642-12	10	12V/14V	Yes	Red	Dome Black	5mm (T-1-3/4)
39-5644-05	10	5V/6V	Yes	Yellow	Dome Black	5mm (T-1-3/4)
39-5644-12	10	12V/14V	Yes	Yellow	Dome Black	5mm (T-1-3/4)
39-5645-05	10	5V/6V	Yes	Green	Dome Black	5mm (T-1-3/4)
39-5645-12	10	12V/14V	Yes	Green	Dome Black	5mm (T-1-3/4)

GLOSSARY

LED

Light emitting diode

VIEWING ANGLE

The typical light output pattern for an LED. It is measured by determining the angle between half intensity points on either side of lamp axis.

LUMINOUS INTENSITY

This expresses the light output of the LED in Millicandelas. This is in reverse of the viewing angle. The wider the viewing, the lower the intensity.

FORWARD CURRENT (IF)

The maximum continuous operating current an LED can withstand without change.

FORWARD VOLTAGE

This is the operating voltage of the LED.

RESISTORS

Current limiting devices used to allow LED's to operate at voltages other than normal for the LED.



WIRE

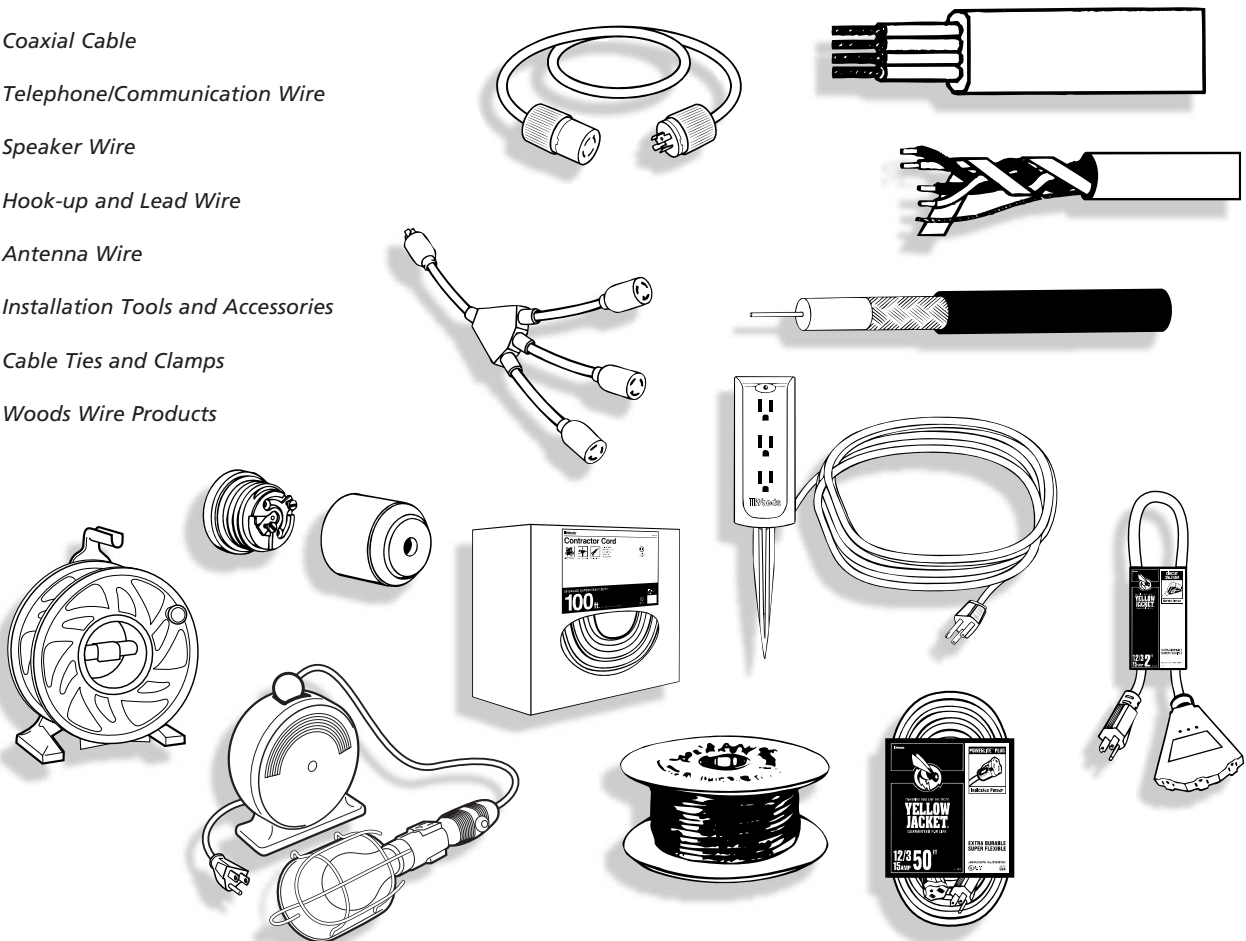
GC Electronics' line of wire and cable has grown with the industry. Few suppliers can offer the range of conductor types supplied by GC. As one of the original manufacturers of antenna wire, GC still offers a full selection of the cables used today, ranging from 300-ohm flat and foam-filled wire to coaxial cable. In addition to our breadth of product type, GC offers you a variety of put-ups enabling you to do one installation, or an entire network. But GC offers you more than antenna wire.

Communication cables have grown from simple telephone station wire to more complex designs; including twisted pair and coax cables. GC has grown along with the industry, offering both the commodity-grade products needed for standard installations and the high bandwidth cables required for today's computer networks. GC, as your one source supplier, offers you the latest cable configurations; including Category 5 and Enhanced Category 5 cables. But GC's selection of cables covers more than just communications.

If you're repairing electro-mechanical devices, GC's selection of hook-up and magnet wire, in small, cost-effective put-ups, makes it easy to get the job done. If you're installing a stereo system, a home theater, or a professional sound studio, GC's line of speaker wire will meet your needs. But as part of the Katy Companies, GC's line of wire continues to grow.

In this section, you'll find a complete line of power cables, both in bulk wire and finished cord sets and devices. Woods Wire products give you industrial and consumer-grade cordage to meet your portable power needs. Choose from a wide selection of extension cords, work lights, and cable management accessories, stocked in Rockford for prompt shipment. Like most products supplied by GC, you can order Woods products one cord at a time or one pallet at a time and benefit from GC's competitive prices and freight policies.

- Coaxial Cable
- Telephone/Communication Wire
- Speaker Wire
- Hook-up and Lead Wire
- Antenna Wire
- Installation Tools and Accessories
- Cable Ties and Clamps
- Woods Wire Products



COAXIAL CABLE



RG-58/U

Non-UL

Specifications:

Conductor (AWG)/Type: 20 gauge Solid Bare Copper
% of Braid: 80% Bare Copper Braid
Nominal Impedance: 53 Ohms
Dielectric Material/Nominal O.D.: Solid Polyethylene/0.116"
Jacket Material/Nominal O.D.: Black PVC/0.195"
Nominal Velocity of Propagation: 66%
Nominal Capacitance: 28.5 (pF/ft.)
Nominal Attenuation per 100 ft.:
 50 MHz 3.1dB
 100 MHz 4.6 dB
 200 MHz 7.0 dB
 400 MHz 10.0 dB
 900 MHz 16.0 dB

Applications:

Broadcast, RF Signal Transmission

Length	Color	Pkg.	Cat. No.
1000 ft.	Black	Spool	14-920-9H81



RG-59/U

Non-UL

Specifications:

Conductor (AWG)/Type: 22 gauge Solid Bare Copper
% of Braid: 70% Bare Copper Braid
Impedance: 80 Ohms Dielectric Material
Nominal O.D.: Polyethylene Foam/0.146"
Jacket Material/Nominal O.D.: Black or White PVC/0.240"
Nominal Velocity of Propagation: 78%
Nominal Capacitance: 16.3 (pF/ft.)
Nominal Attenuation per 100 ft.:
 50 MHz 2.0 dB
 100 MHz 2.9 dB
 200 MHz 4.1 dB
 400 MHz 5.9 dB
 900 MHz 8.8 dB

Applications:

Citizen Band Radio, Local Area Network, RF Signal Transmission

Length	Color	Pkg.	Cat. No.
500 ft.	Black	Spool	14-922-9H61
1000 ft.	Black	Spool	14-922-9H81
1000 ft.	White	Spool	14-922-9H89



RG-59/U

Dual Rated: UL NEC Type CL2/CATV/AWM 1354



Specifications:

Conductor (AWG)/Type: 20 gauge Solid Bare Copper Covered Steel
% of Braid: 100% Aluminum Foil; 40% Aluminum Braid
Nominal Impedance: 75 Ohms
Dielectric Material/Nominal O.D.: Polyethylene Foam/0.143"
Jacket Material/Nominal O.D.: Black PVC/0.240"
Nominal Velocity of Propagation: 78%
Nominal Capacitance: 17.3 (pF/ft.)
Nominal Attenuation per 100 ft.:
 50 MHz 1.8 dB
 100 MHz 2.5 dB
 200 MHz 3.7 dB
 400 MHz 6.2 dB
 900 MHz 8.7 dB

Applications:

CATV, Internal Class 2 Circuits Wiring, Local Area Network, MATV, RF Signal Transmission

Length	Color	Pkg.	Cat. No.
500 ft.	Black	Spool	14-920-1H61



RG-59/U

Non-UL

Specifications:

Conductor (AWG)/Type: 22 gauge Solid Bare Copper Covered Steel
% of Braid: 100% Aluminum Foil; 40% Aluminum Braid
Nominal Impedance: 80 Ohms
Dielectric Material/Nominal O.D.: Polyethylene Foam/0.143"
Jacket Material/Nominal O.D.: Black PVC/0.240"
Nominal Velocity of Propagation: 78%
Nominal Capacitance: 16.3 (pF/ft.)
Nominal Attenuation per 100 ft.:
 50 MHz 2.0 dB
 100 MHz 2.9 dB
 200 MHz 4.1 dB
 400 MHz 5.9 dB
 900 MHz 8.8 dB

Applications:

Local Area Network, RF Signal Transmission

Length	Color	Pkg.	Cat. No.
500 ft.	Black	Spool	14-924-9H61
1000 ft.	Black	Spool	14-924-9H81



RG-59/U

Dual Rated: UL NEC Type CL2/CATV/AWM 1354



Specifications:

Conductor (AWG)/Type: 22 gauge Solid Bare Copper Covered Steel
% of Braid: 100% Foil; 20% Aluminum Braid
Nominal Impedance: 80 Ohms
Dielectric Material/Nominal O.D.: Polyethylene Foam/0.143"
Jacket Material/Nominal O.D.: Black PVC/0.235"
Nominal Velocity of Propagation: 78%
Nominal Capacitance: 16.3 (pF/ft.)
Nominal Attenuation per 100 ft.:
 50 MHz 2.0 dB
 100 MHz 2.9 dB
 200 MHz 4.1 dB
 400 MHz 5.9 dB
 900 MHz 8.8 dB

Applications:

CATV, Internal Class 2 Circuits. Local Area Network, MATV, RF Signal Transmission

Length	Color	Pkg.	Cat. No.
1000 ft.	Black	Spool	14-921-9H81



RG-59/U Quad Shield

Dual Rated: UL NEC Type CL2/CATV/AWM 1354



Specifications:

Conductor (AWG)/Type: 22 gauge Solid Bare Copper Covered Steel
% of Braid: 100% Aluminum Foil; 40% Aluminum Braid (Two of Each)
Nominal Impedance: 80 Ohms
Dielectric Material/Nominal O.D.: Polyethylene Foam/0.143"
Jacket Material/Nominal O.D.: Black PVC/0.255"
Nominal Velocity of Propagation: 78%
Nominal Capacitance: 16.3 (pF/ft.)
Nominal Attenuation per 100 ft.:
 50 MHz 2.0 dB
 100 MHz 2.9 dB
 200 MHz 4.1 dB
 400 MHz 5.9 dB
 900 MHz 8.8 dB

Applications:

CATV, FM Broadcast, MATV, RF Signal Transmission, Local Area Network, Internal Class 2 Circuits Wiring

Length	Color	Pkg.	Cat. No.
1000 ft.	Black	Spool	14-944-9H81



RG-62AIU 100% Shield

Non-UL

Specifications:

Conductor (AWG)/Type: 22 gauge
Solid Bare Copper Covered Steel
% of Braid: 100% Aluminum Tape Shield;
38% Aluminum Braided Shield
Nominal Impedance: 93 Ohms
Dielectric Material/Nominal O.D.: Semi-Solid
Polyethylene/0.146"
Jacket Material/Nominal O.D.: Black PVC/0.240"
Nominal Velocity of Propagation: 84%
Nominal Capacitance: 13.5 (pF/ft.)
Nominal Attenuation per 100 ft.:
50 MHz 1.9 dB
100 MHz 2.7 dB
200 MHz 3.7 dB
400 MHz 5.3 dB
900 MHz 8.1 dB

Applications:

Computer, RF Signal Transmission

Length	Color	Pkg.	Cat. No.
1000 ft.	Black	Spool	14-824-9H81



RG-6IU

Dual Rated: UL NEC Type
CL2/CATV/AWM 1354



Specifications:

Conductor (AWG)/Type: 18 gauge
Solid Bare Copper Covered Steel
% of Braid: 100% Foil; 60% Aluminum Braid
Nominal Impedance: 75 Ohms
Dielectric Material/Nominal O.D.: Polyethylene
Foam/0.180"
Jacket Material/Nominal O.D.: Black PVC/0.240"
Nominal Velocity of Propagation: 78%
Nominal Capacitance: 17.3 (pF/ft.)
Nominal Attenuation per 100 ft.:
50 MHz 1.5 dB
100 MHz 2.1 dB
200 MHz 3.2 dB
400 MHz 6.2 dB
900 MHz 7.2 dB

Applications:

FM Broadcast, Local Area Network, RF Signal
Transmission

Length	Color	Pkg.	Cat. No.
500 ft.	Black	Spool	14-918-9H69
1000 ft.	Black	Spool	14-918-9H89



Super Link™ Dual A/V Cable

Super Link™ Audio/Video Cable is constructed with OFC (oxygen free copper) stranded center conductor and a 90% copper shield over a 100% Mylar foil protected by a super flexible jacket. For use when customizing audio patch cables to interlink CD players, amplifiers, tuners, VCR's and tape decks. This made to measure interconnect keeps the length of cable between connections to a minimum. Use Superlink I or II connectors for termination.

24 AWG Impedance: 75 ohms
O.D.: .230

Length	Pkg.	Cat. No.
100 ft.	Spool	14-990-2H41
250 ft.	Spool	14-990-2H51



RG-6IU

Non-UL

Specifications:

Conductor (AWG)/Type: 18 gauge
Solid Bare Copper Covered Steel
% of Braid: 100% Foil; 46% Aluminum Braid
Nominal Impedance: 75 Ohms
Dielectric Material/Nominal O.D.: Polyethylene
Foam/0.180"
Jacket Material/Nominal O.D.: Black PVC/0.270"
Nominal Velocity of Propagation: 78%
Nominal Capacitance: 17.3 (pF/ft.)
Nominal Attenuation per 100 ft.:
50 MHz 1.5 dB
100 MHz 2.1 dB
200 MHz 3.2 dB
400 MHz 5.2 dB
900 MHz 7.2 dB

Applications:

FM Broadcast, Local Area Network, RF Signal
Transmission

Length	Color	Pkg.	Cat. No.
1000 ft.	Black	Spool	14-926-9H81



RG-6 Quad Shield

Dual Rated: UL NEC Type
CL2/CATV/AWM 1354



Specifications:

Conductor (AWG)/Type: 18 gauge
Solid Bare Copper Covered Steel
% of Braid: 100% Foil; 60% Aluminum Braid,
100% Foil, 48% Aluminum Braid
Nominal Impedance: 75 ohm
Dielectric Material/Nominal O.D.: Polyethylene
Foam/0.180"
Jacket Material/Nominal O.D.: Black PVC/0.275"
Nominal Velocity of Propagation: 78%
Nominal Capacitance: 17.3 (pF/ft.)
Nominal Attenuation per 100 ft.:
50 MHz 1.5 dB
100 MHz 2.1 dB
200 MHz 3.2 dB
400 MHz 6.2 dB
900 MHz 7.2 dB

Applications:

CATV, FM Broadcast, Internal Class 2 Circuits
Wiring, Local Area Network, MATV, RF Signal
Transmission

Length	Color	Pkg.	Cat. No.
1000 ft.	Black	Spool	14-918-1H81

TELEPHONE/COMMUNICATION WIRE

CAT 5 100 MHz UTP Cable-Solid/Patch

UL/CSA Listed: ANSI/TIA/EIA 568A Complaint

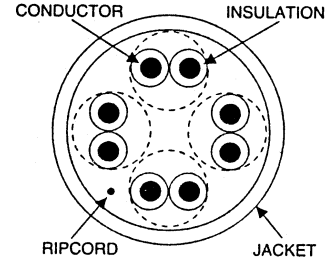
PVC = CMR/Plenum = CMP

Specifications:

Conductor: 24 AWG Bare Copper
Insulation: HDPE,FRPE,100% FEP
 (patch: FRPE,HDPE)
Jacket Material: FRPVC
Jacket Colors: Grey PVC & Blue Plenum –
 ripcord under jacket

Unshielded:

Nominal Impedance: 100+/-15 ohms
Mutual Capacitance (max nf/1000 ft.): 17.1
Capacitance Unbalance (pair to ground):
 330pt/100m max
DC Resistance (max.ohms/1000 ft.): 28.6
DC Resistance Unbalance of a Pair: 5% max
Propagation Delay Skew: 25 nS/100M
Normal Velocity of Propagation:
 Plenum FEP insulated 69%
 Non-Plenum insulated 66%
Nominal O.D.: .190
Patch O.D.: .220



LAN cable UTP 4 pr. solid PVC. jacket for general communications/datacom needs.

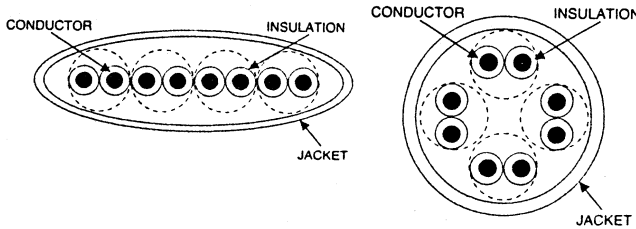
Length	Color	Pkg.	Cat. No.
500 ft.	Grey	Reel/Box	14-555-8L68
1000 ft.	Grey	Reel/Box	14-555-8L88

LAN cable UTP stranded PVC for use with jumper cables, work area outlet to PCs, terminals, workstations, data equipment and telecommunications, and for connecting hub equipment to patch panel.

Length	Color	Pkg.	Cat. No.
1000 ft.	Grey	Reel/Box	14-554-8B88

LAN cable 4 pr. solid plenum for use in commercial buildings.

Length	Color	Pkg.	Cat. No.
1000 ft.	Blue Plenum	Reel/Box	14-9555-8L86



CAT 5 Enhanced Level 6 350MHz UTP

UL/CSA Listed: CMR,CMP –ANSI/TIA/EIA 568A Complaint

PVC = CMR/Plenum = CMP

Specifications:

Conductor: 24 AWG Bare Copper & Bare Stranded Copper
Insulation: HDPE,FRPE,100% FEP
Jacket Material: FRPVC
Jacket Colors: Grey PVC & Grey or Blue Plenum –
 ripcord under jacket (bare solid copper)

Enhanced High Performance CAT 5 UTP cables for mission critical LAN applications or future proofing your Structured Cabling Systems.

Length	Color	Pkg.	Cat. No.
1000 ft.	Grey PVC	Reel/Box	14-350-8L89
1000 ft.	Grey or Blue Plenum	Reel/Box	14-9350-8L89

Unshielded:

Nominal Impedance: 100+/-15 ohms
Mutual Capacitance (max nf/1000 ft.): 17.1
Attenuation-to-Crosstalk Ratio: 100MHz min. = 12.2dB, typical 18.2dB
DC Resistance (max.ohms/1000 ft.): 28.6
Propagation Delay Skew: 25 nS/100M
Normal Velocity of Propagation:
 Plenum FEP insulated 69%
 Non-Plenum insulated 66%



22 AWG Twisted Pair Phone Wire CAT 3

UL Listed: CMR rated 2 & 3 pair

Specifications:

Conductor: 22 AWG Solid Bare Copper

Conductor O.D.: .0253 Insulation

Nominal Thickness: Polyethylene .008

Jacket: PVC – Beige

Nominal Jacket O.D.: .018

DC Resistance: 18.0 ohms/1000 ft. max.

Impedance: 1.0-16.0 MHz - 100 ohms +/- 15%

Structural Return Loss (dB): 1.0-10.0 MHz = 12

Attenuation (dB/meters at 20°C):

256Khz	1.3dB
772KHz	2.2dB
1.0MHz	2.6dB
4.0	5.6dB
8.0	8.5dB
9.0	9.7dB

Color Coded		
Pair #	1st Cond. Base/Band	2nd Cond. Base/Band
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown

Length	Color	Rating	Nom. O.D.	Pkg.	Pairs	Cat. No.
1000 ft.	Beige	CMR	.180	Pull-Out Box	2	14-622-4L89
1000 ft.	Beige	CMR	.200	Pull-Out Box	3	14-622-6L89



24 AWG Twisted Pair Phone Wire CAT 3

UL Listed: CMR rated 2,3,4,6 pair

Specifications:

Conductor: 24 AWG Solid Bare Copper

Conductor O.D.: .0201 Insulation

Nominal Thickness: Polyethylene .008

Jacket: PVC – Beige

Nominal Jacket O.D.: .018

DC Resistance: 28.06 ohms/1000 ft. max.

Impedance: 1.0-16.0 MHz - 100 ohms +/- 15%

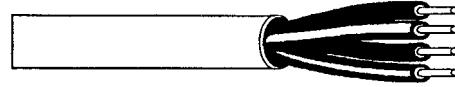
Structural Return Loss (dB): 1.0-10.0 MHz = 12

Attenuation (dB/meters at 20°C):

256Khz	1.3dB
772KHz	2.2dB
1.0MHz	2.6dB
4.0	5.6dB
8.0	8.5dB
9.0	9.7dB

Color Coded		
Pair #	1st Cond. Base/Band	2nd Cond. Base/Band
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown

Length	Color	Rating	Nom. O.D.	Pkg.	Pairs	Cat. No.
1000 ft.	Beige	CMR	.140	Pull-Out Box	2	14-624-4L89
1000 ft.	Beige	CMR	.160	Pull-Out Box	3	14-624-6L89
1000 ft.	Beige	CMR	-	Pull-Out Box	4	14-624-8L89
1000 ft.	Beige	CMR	-	Pull-Out Box	6	14-624-9L89
100 ft.	Beige	CMR	.140	Hank	3	30-9973



22 AWG Solid Telephone Station Wire

Beige-jacketed hook-up wire with color-coded wires within.

Length	Conductor	Pkg.	Cat. No.
25 ft.	4	Hank	30-9902
50 ft.	4	Hank	30-9900
100 ft.	4	Hank	30-9901
500 ft.	4	Knockout Carton	30-9905
1000 ft.	4	Knockout Carton	30-9959
1000 ft.	4	Pullout Box	30-9953
5000 ft.	4	Spool	**30-9960
1000 ft.	4	Knockout Carton	*30-9979
100 ft.	6	Hank	30-9969
500 ft.	6	Knockout Carton	30-9970
1000 ft.	6	Knockout Carton	30-9971
3000 ft.	6	Spool	**30-9972

*UL Listed: CMX

**Non-stock. Made to order only items.

24 AWG Solid Telephone Station Wire

Beige-jacketed hook-up wire with color-coded wires within.

Length	Conductor	Pkg.	Cat. No.
100 ft.	4	Hank	30-9956
100ft.	4	Hank	*30-9903
500 ft.	4	Knockout Carton	30-9957
1000 ft.	4	Knockout Carton	30-9958
1000 ft.	4	Pullout Box	30-9952
5000 ft.	4	Spool	**30-9980
1000 ft.	4	Knockout Carton	*30-9978
1000 ft.	6	Knockout Carton	30-9976
4000 ft.	6	Spool	**30-9982

*UL Listed: CMX

**Non-stock. Made to order only items.



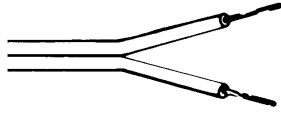
26 AWG Stranded Flat Modular Line Cord

Jacketed line cord with color coded wires. Use with telephone modular plugs.

Length	Conductor	Color	Pkg.	Cat. No.
500 ft.	4	Grey	Knockout Carton	30-9906
50 ft.	4	Grey	Hank	30-9907
100 ft.	4	Grey	Hank	30-9908
50 ft.	4	Ivory	Hank	30-9920
100 ft.	4	Ivory	Hank	30-9922
500 ft.	4	Ivory	Knockout Carton	30-9924
5000 ft.	4	Grey	Spool	**30-9961
1000 ft.	4	Grey	Spool	30-9962
1000 ft.	4	Ivory	Spool	30-9963
5000 ft.	4	Ivory	Spool	**30-9964
100 ft.	6	Grey	Hank	30-9932
100 ft.	6	Ivory	Hank	30-9933
500 ft.	6	Grey	Knockout Carton	30-9934
1000 ft.	6	Grey	Spool	30-9965
1000 ft.	6	Ivory	Spool	30-9966
4000 ft.	6	Grey	Spool	**30-9967
4000 ft.	6	Ivory	Spool	**30-9968
500 ft.	8	Grey	Spool	30-9945
1000 ft.	8	Grey	Spool	30-9940
3000 ft.	8	Grey	Spool	30-9988

**Non-stock. Made to order only items.

SPEAKER WIRE



Two conductor **FLAT PARALLEL WIRE** for loudspeaker connection and other low voltage applications such as alarm, signal and telephone circuits. Temperature range: -20° to +60°C. White identification polarity stripe.

24 Gauge (2-Conductor)

Specifications:

Conductor AWG: 24 gauge

Stranding: 7/32

Insulation Nominal Wall Thickness: .016"

Voltage: 300V

Temperature Rating: -20°C to +60°C

Construction: Bare Copper Conductors; Clear PVC; 1 Conductor Identified for Polarity

Nominal O.D.: .055" x .110"

Applications:

Automotive Speaker Wire, Juke Boxes, Stereo Speaker Wire

Length	Color	Pkg.	Cat. No.
25 ft.	Clear	Spool	14-224-2B13
50 ft.	Clear	Spool	14-224-2B23
100 ft.	Clear	Spool	14-224-2B43
500 ft.	Clear	Spool	14-224-2B63
1000 ft.	Clear	Spool	14-224-2B83
50 ft.	Clear	Hank	30-586
100 ft.	Clear	Hank	30-588

18 Gauge (2-Conductor)

Specifications:

Conductor AWG: 18 gauge

Stranding: 16/30

Insulation Nominal Wall Thickness: .025"

Voltage: 300V

Temperature Rating: -20°C to +60°C

Construction: Bare Copper Conductors; Clear PVC; 1 Conductor Identified for Polarity

Nominal O.D.: .100" x .200"

Applications:

Automotive Speaker Wire, Juke Boxes, Stereo Speaker Wire

Length	Color	Pkg.	Cat. No.
25 ft.	Clear	Spool	14-218-2E13
50 ft.	Clear	Spool	14-218-2E23
100 ft.	Clear	Spool	14-218-2E43
250 ft.	Clear	Spool	14-218-2E53
500 ft.	Clear	Spool	14-218-2E63
1000 ft.	Clear	Spool	14-218-2E83
50 ft.	Clear	Hank	30-584
100 ft.	Clear	Hank	30-554

22 Gauge (2-Conductor)

Specifications:

Conductor AWG: 22 gauge

Stranding: 7/30

Insulation Nominal Wall Thickness: .020"

Voltage: 300V

Temperature Rating: -20°C to +60°C

Construction: Bare Copper Conductors; Clear PVC; 1 Conductor Identified for Polarity

Nominal O.D.: .070" x .140"

Applications:

Automotive Speaker Wire, Juke Boxes, Stereo Speaker Wire

Length	Color	Pkg.	Cat. No.
25 ft.	Clear	Spool	14-222-2C13
50 ft.	Clear	Spool	14-222-2C23
100 ft.	Clear	Spool	14-222-2C43
500 ft.	Clear	Spool	14-222-2C63
1000 ft.	Clear	Spool	14-222-2C83

16 Gauge (2-Conductor)

Specifications:

Conductor AWG: 16 gauge

Stranding: 19/29

Insulation Nominal Wall Thickness: .025"

Voltage: 300V

Temperature Rating: -20°C to +60°C

Construction: Bare Copper Conductors; Clear PVC; 1 Conductor Identified for Polarity

Nominal O.D.: .105" x .205"

Applications:

Automotive Speaker Wire, Juke Boxes, Stereo Speaker Wire

Length	Color	Pkg.	Cat. No.
25 ft.	Clear	Spool	14-216-2F13
50 ft.	Clear	Spool	14-216-2F23
100 ft.	Clear	Spool	14-216-2F43
250 ft.	Clear	Spool	14-216-2F53
500 ft.	Clear	Spool	14-216-2F63
1000 ft.	Clear	Spool	14-216-2F83

20 Gauge (2-Conductor)

Specifications:

Conductor AWG: 20 gauge

Stranding: 7/28

Insulation Nominal Wall Thickness: .025"

Voltage: 300V

Temperature Rating: -20°C to +60°C

Construction: Bare Copper Conductors; Clear PVC; 1 Conductor Identified for Polarity

Nominal O.D.: .085" x .170"

Applications:

Automotive Speaker Wire, Juke Boxes, Stereo Speaker Wire

Length	Color	Pkg.	Cat. No.
25 ft.	Clear	Spool	14-220-2D13
50 ft.	Clear	Spool	14-220-2D23
100 ft.	Clear	Spool	14-220-2D43
500 ft.	Clear	Spool	14-220-2D63
1000 ft.	Clear	Spool	14-220-2D83
50 ft.	Clear	Hank	30-553

14 Gauge (2-Conductor)

Specifications:

Conductor AWG: 14 gauge

Stranding: 19/27

Insulation Nominal Wall Thickness: .025"

Voltage: 300V

Temperature Rating: -20°C to +60°C

Construction: Bare Copper Conductors; Clear PVC; 1 Conductor Identified for Polarity

Nominal O.D.: .120" x .240"

Applications:

Automotive Speaker Wire, Juke Boxes, Stereo Speaker Wire

Length	Color	Pkg.	Cat. No.
50 ft.	Clear	Spool	14-214-2Q23
100 ft.	Clear	Spool	14-214-2Q43
500 ft.	Clear	Spool	14-214-2Q63



Speaker Wire (2-Conductor) 16 AWG/14 AWG



For in-wall installations. 2-conductor stranded bare copper wire. Each conductor is insulated with an overall jacket.

Specifications for 14 Gauge:

Conductor AWG: 14 gauge
Stranding: 19/27
Insulation Nominal Wall Thickness: .015
Voltage: 300V

Temperature Rating: Flame Retardant PVC Jacket - 75°C
Construction: Bare Copper Conductors; Semi-Rigid PVC Insulation; Conductors Cabled

Jacket Nominal O.D.: .025
Nominal O.D.: .248"
UL Rated: .NEC Type MP

Specifications for 16 Gauge:

Conductor AWG: 16 gauge
Stranding: 19/29
Insulation Nominal Wall Thickness: .010
Voltage: 300V

Temperature Rating: Flame Retardant PVC Jacket - 75°C
Construction: Bare Copper Conductors; Semi-Rigid PVC Insulation; Conductors Cabled

Jacket Nominal O.D.: .025
Nominal O.D.: .176"
UL Rated: .NEC Type MP

Applications:

Intercom Systems, Interconnecting Cables, Public Address Systems, Remote Control Circuits, Class 2 & 3 Circuits, Installation in Wet/Dry Locations

Length	Color	Pkg.	Cat. No.
1000 ft.	Grey	Spool	14-214-2Q89
1000 ft.	Grey	Spool	14-216-2F89



Speaker Wire (4-Conductor) 16 AWG

UL Rated: NEC Type MP



For in-wall installations. 4-conductor stranded bare copper wire. Each conductor is insulated with an overall jacket.

Specifications:

Conductor AWG: 16 gauge
Stranding: 19/29
Insulation Nominal Wall Thickness: .010
Voltage: 300V

Temperature Rating: Flame Retardant PVC Jacket - 75°C
Construction: Bare Copper Conductors; Semi-Rigid PVC Insulation; Conductors Cabled

Jacket Nominal O.D.: .025
Nominal O.D.: .236

Applications:

Intercom Systems, Interconnecting Cables, Public Address Systems, Remote Control Circuits

Length	Color	Pkg.	Cat. No.
1000 ft.	Grey	Spool	14-216-4F89



Power-Flex™ Speaker Cable (2-Conductor)

Specifications:

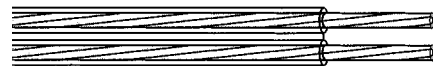
Conductor AWG: 10 gauge
Stranding: 413/36
Insulation Nominal Wall Thickness: .070
Voltage: 300V

Temperature Rating: -20°C to + 60°C
Construction: Bare Oxygen Free Copper Conductors; Flexible PVC Insulation and Rope Lay; Surface Print for Identification & Polarity
Nominal O.D.: .270 x .540

Applications:

Low capacitance cable for use in high definition speaker systems. Rope lay designed to increase the conductive surface, reduce "skin effect", and maximum flexibility. Low capacitance, resistance, and inductance of these cables transfer music signals from amplifier to speakers with high clarity and definition.

Length	Color	Pkg.	Cat. No.
100 ft.	Clear	Spool	14-210-9H43
250 ft.	Clear	Spool	14-210-9H53
500 ft.	Clear	Spool	14-210-9H63
25 ft.	Clear	Hank	30-581



Power-Flex™ Speaker Cable (2-Conductor)

Specifications:

Conductor AWG: 12 gauge
Stranding: 259/36
Insulation Nominal Wall Thickness: .055
Voltage: 300V

Temperature Rating: -20°C to + 60°C
Construction: Bare Oxygen Free Copper Conductors; Extra Flexible PVC Insulation and Rope Lay; Surface Print for Identification & Polarity
Nominal O.D.: .205 x .415

Applications:

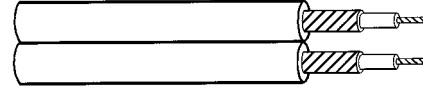
Low capacitance cable for use in high definition speaker systems. Rope lay designed to increase the conductive surface, reduce "skin effect", and maximum flexibility. Low capacitance, resistance, and inductance of these cables transfer music signals from amplifier to speakers with high clarity and definition.

Length	Color	Pkg.	Cat. No.
100 ft.	Clear	Spool	14-212-9H43
250 ft.	Clear	Spool	14-212-9H53
500 ft.	Clear	Spool	14-212-9H63
25 ft.	Clear	Hank	30-583

AUDIO WIRE

Coaxial Audio Cable

This shielded audio cable is ideal for custom audio connections. The superior quality of this cable can be used in car and home installations. Insulated dual 26 AWG, with copper center conductor; PVC insulation with spiral copper shield.



500 ft. O.D. 2.6mmx5.2mm
Cat. No. 14-219-9H63

HOOKUP & LEAD WIRE

26 Gauge

Specifications:

Stranding: 7/34

Insulation Thickness: .010" (Stranded) .009" (Solid) .010"

Insulation Material: Semi-Rigid PVC

Nominal O.D.: .039" (Stranded) .036" (Solid)

Max. Rating: 300V

Amps Rating: 4 Amps



Stranded

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-426-1H10	14-426-1H40	14-426-1H80
Black	14-426-1H11	14-426-1H41	14-426-1H81
Brown	14-426-1H12	14-426-1H42	14-426-1H82
Orange	14-426-1H13	14-426-1H43	14-426-1H83
Off-White	14-426-1H14	14-426-1H44	14-426-1H84
Violet	14-426-1H15	14-426-1H45	14-426-1H85
Red	14-426-1H16	14-426-1H46	14-426-1H86
Green	14-426-1H17	14-426-1H47	14-426-1H87
Yellow	14-426-1H18	14-426-1H48	14-426-1H88
Light Blue	14-426-1H19	14-426-1H49	14-426-1H89

Solid

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-426-1K10	14-426-1K40	14-426-1K80
Black	14-426-1K11	14-426-1K41	14-426-1K81
Brown	14-426-1K12	14-426-1K42	14-426-1K82
Orange	14-426-1K13	14-426-1K43	14-426-1K83
Off-White	14-426-1K14	14-426-1K44	14-426-1K84
Violet	14-426-1K15	14-426-1K45	14-426-1K85
Red	14-426-1K16	14-426-1K46	14-426-1K86
Green	14-426-1K17	14-426-1K47	14-426-1K87
Yellow	14-426-1K18	14-426-1K48	14-426-1K88
Light Blue	14-426-1K19	14-426-1K49	14-426-1K89

**Non-stock. Made to order.

24 Gauge

Specifications:

Stranding: 7/32

Insulation Thickness: .010"

Insulation Material: Semi-Rigid PVC

Nominal O.D.: .044 (Stranded) .040" (Solid)

Max. Rating: 300V

Amps Rating: 6 Amps



Stranded

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-424-1B10	14-424-1B40	14-424-1B80
Black	14-424-1B11	14-424-1B41	14-424-1B81
Brown	14-424-1B12	14-424-1B42	14-424-1B82
Orange	14-424-1B13	14-424-1B43	14-424-1B83
Off-White	14-424-1B14	14-424-1B44	14-424-1B84
Violet	14-424-1B15	14-424-1B45	14-424-1B85
Red	14-424-1B16	14-424-1B46	14-424-1B86
Green	14-424-1B17	14-424-1B47	14-424-1B87
Yellow	14-424-1B18	14-424-1B48	14-424-1B88
Light Blue	14-424-1B19	14-424-1B49	14-424-1B89

Solid

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-424-1L10	14-424-1L40	14-424-1L80
Black	14-424-1L11	14-424-1L41	14-424-1L81
Brown	14-424-1L12	14-424-1L42	14-424-1L82
Orange	14-424-1L13	14-424-1L43	14-424-1L83
Off-White	14-424-1L14	14-424-1L44	14-424-1L84
Violet	14-424-1L15	14-424-1L45	14-424-1L85
Red	14-424-1L16	14-424-1L46	14-424-1L86
Green	14-424-1L17	14-424-1L47	14-424-1L87
Yellow	14-424-1L18	14-424-1L48	14-424-1L88
Light Blue	14-424-1L19	14-424-1L49	14-424-1L89

**Non-stock. Made to order.

22 Gauge

Specifications:

Stranding: 7/30

Insulation Thickness: .010"

Insulation Material: Semi-Rigid PVC



Nominal O.D.: .050" (Stranded) .045" (Solid)

Max. Rating: 300V

Amps Rating: 8 Amps

Stranded

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-422-1C10	14-422-1C40	14-422-1C80
Black	14-422-1C11	14-422-1C41	14-422-1C81
Brown	14-422-1C12	14-422-1C42	14-422-1C82
Orange	14-422-1C13	14-422-1C43	14-422-1C83
Off-White	14-422-1C14	14-422-1C44	14-422-1C84
Violet	14-422-1C15	14-422-1C45	14-422-1C85
Red	14-422-1C16	14-422-1C46	14-422-1C86
Green	14-422-1C17	14-422-1C47	14-422-1C87
Yellow	14-422-1C18	14-422-1C48	14-422-1C88
Light Blue	14-422-1C19	14-422-1C49	14-422-1C89

Solid

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-422-1M10	14-422-1M40	14-422-1M80
Black	14-422-1M11	14-422-1M41	14-422-1M81
Brown	14-422-1M12	14-422-1M42	14-422-1M82
Orange	14-422-1M13	14-422-1M43	14-422-1M83
Off-White	14-422-1M14	14-422-1M44	14-422-1M84
Violet	14-422-1M15	14-422-1M45	14-422-1M85
Red	14-422-1M16	14-422-1M46	14-422-1M86
Green	14-422-1M17	14-422-1M47	14-422-1M87
Yellow	14-422-1M18	14-422-1M48	14-422-1M88
Light Blue	14-422-1M19	14-422-1M49	14-422-1M89

**Non-stock. Made to order.

20 Gauge

Specifications:

Stranding: 7/28

Insulation Thickness: .010"

Insulation Material: Semi-Rigid PVC



Nominal O.D.: .058" (Stranded) .052" (Solid)

Max. Rating: 300V

Amp Rating: 10 Amps

Stranded

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-420-1D10	14-420-1D40	14-420-1D80
Black	14-420-1D11	14-420-1D41	14-420-1D81
Brown	14-420-1D12	14-420-1D42	14-420-1D82
Orange	14-420-1D13	14-420-1D43	14-420-1D83
Off-White	14-420-1D14	14-420-1D44	14-420-1D84
Violet	14-420-1D15	14-420-1D45	14-420-1D85
Red	14-420-1D16	14-420-1D46	14-420-1D86
Green	14-420-1D17	14-420-1D47	14-420-1D87
Yellow	14-420-1D18	14-420-1D48	14-420-1D88
Light Blue	14-420-1D19	14-420-1D49	14-420-1D89

Solid

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-420-1O10	14-420-1O40	14-420-1O80
Black	14-420-1O11	14-420-1O41	14-420-1O81
Brown	14-420-1O12	14-420-1O42	14-420-1O82
Orange	14-420-1O13	14-420-1O43	14-420-1O83
Off-White	14-420-1O14	14-420-1O44	14-420-1O84
Violet	14-420-1O15	14-420-1O45	14-420-1O85
Red	14-420-1O16	14-420-1O46	14-420-1O86
Green	14-420-1O17	14-420-1O47	14-420-1O87
Yellow	14-420-1O18	14-420-1O48	14-420-1O88
Light Blue	14-420-1O19	14-420-1O49	14-420-1O89

**Non-stock. Made to order.

18 Gauge

Specifications:

Stranding: 19/0.092

Insulation Thickness: .010"

Insulation Material: Semi-Rigid PVC



Nominal O.D.: .066" (Stranded) .060" (Solid)

Max. Rating: 300V

Amps Rating: 15 Amps

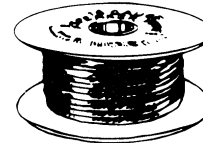
Stranded

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-418-1E10	14-418-1E40	14-418-1E80
Black	14-418-1E11	14-418-1E41	14-418-1E81
Brown	14-418-1E12	14-418-1E42	14-418-1E82
Orange	14-418-1E13	14-418-1E43	14-418-1E83
Off-White	14-418-1E14	14-418-1E44	14-418-1E84
Violet	14-418-1E15	14-418-1E45	14-418-1E85
Red	14-418-1E16	14-418-1E46	14-418-1E86
Green	14-418-1E17	14-418-1E47	14-418-1E87
Yellow	14-418-1E18	14-418-1E48	14-418-1E88
Light Blue	14-418-1E19	14-418-1E49	14-418-1E89

Solid

Color	25 ft.	100 ft.	**1000 ft.
Grey	14-418-1P10	14-418-1P40	14-418-1P80
Black	14-418-1P11	14-418-1P41	14-418-1P81
Brown	14-418-1P12	14-418-1P42	14-418-1P82
Orange	14-418-1P13	14-418-1P43	14-418-1P83
Off-White	14-418-1P14	14-418-1P44	14-418-1P84
Violet	14-418-1P15	14-418-1P45	14-418-1P85
Red	14-418-1P16	14-418-1P46	14-418-1P86
Green	14-418-1P17	14-418-1P47	14-418-1P87
Yellow	14-418-1P18	14-418-1P48	14-418-1P88
Light Blue	14-418-1P19	14-418-1P49	14-418-1P89

**Non-stock. Made to order.



Magnet Wire

Insulated with polyurethane and nylon.

Perfect for winding coils and transformers.

NEMA Temp Rating: 155°C/730°F

NEMA Spec: MW - 80°C

Heat Shock Test: 175°C

Applications: Lighting, Ballasts, Relays & Timers, Motor Applications, Auto Devices

Nom. Bare Dia.	Length	Gauge	Resist.ohms/ 1000;@20°C	Cat.No.
.0285	50 ft.	21 AWG	12.768	L3-610
.0201	100 ft.	24 AWG	25.796	L3-612
.0125	200 ft.	28 AWG	65.325	L3-614
.0080	400 ft.	32 AWG	162.05	L3-616

ANTENNA WIRE



Twin Lead - 22 Gauge - Flat
Specifications:
Conductor AWG/Type: 22 gauge-Flat/Bare Copper Conductors
Stranding: 7/30
Insulation & Jacket Material: Polyethylene
Nominal O.D.: .068" x .450"
Nominal Impedance: 300 Ohms
Temperature Rating: -20°C to 60°C; Resistant to Ultraviolet Rays
Nominal Attenuation per 100 ft.:
 100 MHz 1.1 dB
 200 MHz 1.7 dB
 300 MHz 2.2 dB
 500 MHz 3.1 dB
 900 MHz 4.5 dB

Applications:
 FM & TV Transmission Lines. Designed for use with color or black/white TV, as well as FM multiplex

Length	Color	Pkg.	Cat. No.
50 ft.	Black	Hank*	14-322-2C22
75 ft.	Black	Hank*	14-322-2C32
100 ft.	Black	Hank*	14-322-2C42
500 ft.	Black	Spool	14-322-2C62

*Hang tab package

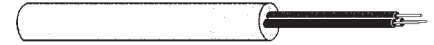


Twin Lead - 20 Gauge - Foam-Filled
Specifications:
Conductor AWG/Type: 20 Foam-Filled
Stranding: 7/28
Insulation Thickness: .50"
Insulation Jacket Material: Polyethylene
Nominal O.D.: .145" x .400"
Conductor Material: Bare Copper
Nominal Velocity Impedance: 300 Ohms
Temperature Rating: -20° to 60°C
Nominal Attenuation per 100 ft.:
 100 MHz 1.2 dB
 300 MHz 2.6 dB
 700 MHz 4.3 dB
 900 MHz 4.8 dB

Applications:
 FM & TV Transmission Lines. Designed for use with color or black/white TV, as well as FM multiplex

Length	Color	Pkg.	Cat. No.
50 ft.	Black	Hank*	14-520-2N21
75 ft.	Black	Hank*	14-520-2N31
100 ft.	Black	Hank*	14-520-2N41

*Hang tab package

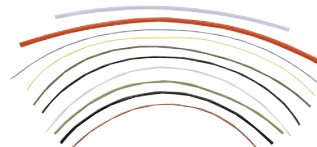


Rotor Wire
Specifications:
Conductor/Gauge: 3 conductor Round/20 gauge
Stranding: 7/28
Insulation Wall Thickness: .010"
Jacket Wall: .020"
Insulation Material: PVC
Jacket Material: Black PVC
Nominal O.D.: .162"
Voltage: 200V
Temperature Rating: -20°C to +60°C
Conductor Material: Stranded Bare Copper
3-Conductor Color Code: 1C = Black, 2C = White, 3C = Red
 100 ft.
Cat. No. 14-620-3C41
 1000 ft.
Cat. No. 14-620-3C81

INSTALLATION TOOLS



Cable Tie Gun
 Lightweight, molded plastic cable tie installation tool. User controls tension and cuts tie with 180° rotation of tool. Will work with our Cat. No. 34-438-C through No. 34-468-C cable ties.
Cat. No. 12-472



Teflon Tubing Assortment
 Assortment of high quality Teflon tubing in a variety of diameters. Withstands temperatures to 500°F. 9" lengths.
Pkg. of 25
Cat. No. H3-461



Heat Gun
UL Listed, 115V AC
 A dual range heat gun for use in heating shrink tube and drying coatings, adhesives, etc. Low temperature range setting produces a nominal 700°F (2,000 BTU's), high range 975°F (4,000 BTU's). Maximum setting draws 10 Amps, low heat draws 5 Amps. A light weight design that is easy to handle. Designed so that it may be put down to cool without a special holder.
Cat. No. 12-997



Spaghetti Assortment
 An assortment of insulating tubing. Assorted sizes and colors. 9" lengths.
 Pkg. of 25
Cat. No. 550



Heat Shrinkable Tubing Assortment
 Shrinks to half its original size when heated. Use it for insulating terminals, connectors, tool handles and wire splices. Use heat gun, oven or barrel of soldering iron. Assorted sizes and colors. 6" lengths.
 Pkg. of 7
Cat. No. H3-462



Flexible Heat Shrinkable PVC Tubing

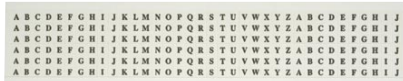
Fungus-resistant and non-corrosive PVC tubing. Application of heat (250°F) shrinks tubing to 50% of original diameter. Recommended for tightly sealing connectors, weather proofing repaired sections in insulated wire or cable, etc. Meets UL requirements, ASTM D-922, Mil, spec. MIL-1-631 Grade C and MIL-1-23053 Grade 5b.

Specifications:

Recovery Temperature: 250°F
Tensile Strength: 1800 PSI min.
Flammability: Less than 15 seconds (ASTM D-876)
Dielectric Strength: 800V/MIL
Dielectric Constant: 7.0 1 kHz
Material: PVC, Class A (105°C) shrinkdown, packaged in 6" lengths

Pieces Per Bag	Diameter Expanded	Diameter Recovered	Cat. No.
35	.062"	.031"	12-1040
32	.093"	.046"	12-1042
30	.125"	.062"	12-1044
27	.187"	.093"	12-1046
23	.250"	.125"	12-1048
19	.375"	.187"	12-1052
27	.125"	.078"	12-1062
23	Assorted Black		12-1080
19	Assorted Clear		12-1082*

*N.S.N. 5970-01-051-4708



Wire & Cable Markers

Letters or numbers for identification of wiring and component location. Permanent, legible, foolproof. Made of durable, vinyl cloth markers with plastic coating. Adhesion to steel. Resistant to oil, water, abrasions. Service Temperature Rating: 40°F to +250°F Pre-cut to exact size. Self-adhesive backed.

Numbers 1-33
Cat. No. 12-2210

Numbers 34-66
Cat. No. 12-2211

Numbers 67-99
Cat. No. 12-2212

Letters A-Z
Cat. No. 12-2213

Kit: 3 Strips of 33, Numbers 1-99
Cat. No. 12-9229

GC-PR38-D

1. GC Marker Dispensers



2. Easily Carried



3. Fast Reloading



5. Self Laminating Markers



4. GC Wire Marker Booklets



Wire/Cable ID System

Portable wire marker system. Each dispenser contains 76 of each numeral or NEMA colors. Markers have an acrylic adhesive resistant to oil or water and can be used from -40°F to +250°F. Lightweight and compact in size. The dispenser can safely be hooked onto a tool belt or carried in a shirt pocket or tool box. Refill your dispenser the way you want it. 0-9 colors or Nema colors. There is no need for serrated edges or blades, because each marker is pre-cut and non-conductive.

Loaded Dispenser 0-9
Cat. No. GC-KMM-0-9

Loaded Dispenser NEMA colors
Cat. No. GC-KMM-NEMA

Refill (0-9)
Cat. No. GC-TMM-0-9

Refill NEMA colors
Cat. No. GC-TMM-NEMA

Wire/Cable ID System

Wire marker booklets are convenient pocket size packages of tape wire markers. Each booklet contains 10 pages of 1-1/4" pre-cut wire markers, plus terminal identification containing a combination of numbers or NEMA colors.

Wire Marker Book 0-9
Cat. No. GC-ZTB-1

Wire Marker Book A-Z,0-15,+,-,/ **Cat. No. GC-ZTB-2**

Wire Marker Book 1-45
Cat. No. GC-ZTB-3

Wire Marker Book 46-90
Cat. No. GC-ZTB-8

Wire/Cable ID System

Self-laminating markers available in 2 sizes. RW13 measure 3/4"W x 3"L with a 3/4" square write on area (90 markers). RW52 measure 3/4"W x 1-7/8"L with a 3/4" x 1/2" write on area (150 markers).

Write-on Dispenser
Cat. No. GC-RW13

Write-on Dispenser
Cat. No. GC-RW52



1. Write your own legend on white area



2. Pull backing tape down to dispense marker



3. Place written portion on wire or cable . . .



4. . . . wrap transparent portion around for full protection

CABLE TIES & CLAMPS

Self-Locking Cable Ties

Manufactured of 100% non-corrosive nylon. Bent-tip design for ease of handling installation. Easy to use permanent lock. Strong one-piece construction. UL Recognized.*

Serviceable: to 185°F (85°C)

Material: Nylon 6/6, RMS-01

Color: Natural & Black;

UV stabilized Nylon 6/6, RMS-46



Length	Maximum Bundle Diameter	Min. Loop Tensile Strength Pounds	Color	Cat. No.
4"	3/4"	18	Black	34-450-C
4"	3/16"	18	Natural	34-451-C
6"	1-3/8"	30	Black	34-452-C
6"	1-3/8"	30	Natural	34-453-C
8"	2"	45	Black	34-454-C
8"	2"	45	Natural	34-455-C
8"	2"	75	Black	34-456-C
11"	3"	75	Black	34-458-C
11"	3"	75	Natural	34-459-C
15"	4"	120	Black	34-469-C
15"	4"	120	Natural	34-468-C

Identification Tie

Marker tags identify wires, bundles, leads or terminals. Ties have matted surface to accept ink, pencil or marker.

Material: Nylon 6/6, RMS-01



Length	Maximum Bundle Diameter	Min. Loop Tensile Strength Pounds	Color	Cat. No.
4-1/2"	3/4"	18	Natural	34-477-C

Cable Ties with Screw Mount

Screw mount ties eliminate the need for mounting device.

Material: Nylon 6/6, RMS-01

Color: Black; UV Stabilized Nylon 6/6, RMS-46



Length	Screw Size	Maximum Bundle Diameter	Min. Loop Tensile Strength Pounds	Color	Cat. No.
8"	10	2"	50	Black	34-460-C
6"	8	1-3/8"	30	Black	34-462-C
6"	8	1-3/8"	30	Natural	34-463-C

Flat Adhesive Backed Tie Mounts

Multi-directional; tie can be used from any side. Double adhesive tape with release tab.

Material: Nylon 6/6, RMS-01; UV Stabilized Nylon 6/6, RMS-46; Adhesive back – RMS-15



Length	Width	Color	Cat. No.
3/4"	3/4"	Natural	34-480-C
1"	1"	Natural	34-462-C

Nylon Cable Clamps

Clamps are designed for normal industrial and commercial application. Strong flexible nylon. Resistant to most chemicals. Bulk boxes of 100 clamps

Material: RMS-01

Color: Natural



Cable Holding Dia.	Type	Cat. No.
1/4"	Nylon	34-378-C
3/8"	Nylon	34-316-C
1/2"	Nylon	34-394-C
5/8"	Nylon	34-402-C

Adjustable Adhesive Mounted Cable Clips

Handles dozens of routing jobs. Reduces inventory because 4 sizes adjust to any holding diameter from 5/16" to 1" (7.9mm to 25.4mm). Locks securely and can be easily reopened for routing changes. Adhesive backing material RMS-15. Bulk boxes of 100 clips.

Material: Nylon 6/6, RMS-01

Color: Natural



Bundle Dia. Range	Length	Width	Clip Dia.	Clip Width	Cat. No.
5/16" to 13/32"	1"	3/4"	7/8"	.40	34-381-C
15/32" to 9/16"	1-1/4"	3/4"	1-3/32"	.40	34-382-C
37/64" to 3/4"	1-1/2"	3/4"	1-1/4"	.50	34-384-C
7/8" to 1"	2"	1"	1-3/4"	.50	34-385-C

Adhesive Mounted Locking Cable Clips

Exclusively patented lock-release design. Average pull-off strength is 12 pounds. Made of high-impact, sable PVC with a temperature range of -20°F to +180°F (best adhesion from +70° to +180°F). Bulk boxes of 100 clips.

Color: Black



Pull-Off Length	Width	Clip I.D.	(lbs.)	Cat. No.
1.25"	1"	1/2"	14	34-380-C
1.00"	1"	3/8"	12	34-383-C
1.00"	1"	1/4"	12	34-387-C
1.00"	1/2"	3/8"	9	34-396-C
1.00"	1/2"	1/4"	9	34-400-C
0.75"	1/2"	3/16"	8	34-404-C

N.S.N. 5340-01-240-9830

YELLOW JACKET® CONTRACTOR GRADE

Guaranteed for Life — Tough. Super Flexible Power Cords with Power Indicator Light



Yellow Jacket® Power Cords

Woods' exclusive Yellow Jacket® compound is more flexible and abrasion resistant at any temperature than standard vinyl compounds. (Don't confuse Woods' unique high-gloss super flexible Yellow Jacket® wire with yellow cords made of regular SJTW or SJEOW compounds.) Yellow Jacket® cords are three times as abrasion resistant as standard vinyl, making these cords the toughest on the job site. PowerLite indicator plugs glow when the cord has power. Extra heavy, clear molded plugs are rugged and durable.



WD-2886



WD-2884

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2886	14/3	SJTW	25'	yellow	15A	12
WD-2887	14/3	SJTW	50'	yellow	15A	6
WD-2888	14/3	SJTW	100'	yellow	13A	3
WD-2883	12/3	SJTW	25'	yellow	15A	6
WD-2884	12/3	SJTW	50'	yellow	15A	4

Individually packaged in easy-to-carry corrugated display box.

WD-2885	12/3	SJTW	100'	yellow	15A	2
WD-2805	10/3	SJTW	50'	yellow	15A	2
WD-2806	10/3	SJTW	100'	yellow	15A	2

Yellow Jacket® with LOCK-JAW™ Locking Plug

Woods' patented LOCK-JAW™ locking plug keeps tools plugged in eliminating the frustration of tools coming unplugged. LOCK-JAW™ locking plug works with any tool.



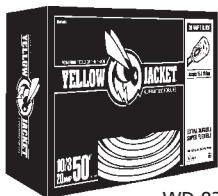
WD-82734

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-82734	14/3	SJTW	50'	yellow	15A	7
WD-2737	12/3	SJTW	50'	yellow	15A	4
WD-2738	12/3	SJTW	100'	yellow	15A	2

Yellow Jacket® Power Cords with T-Blade Plug

The one-product solution for the contractor!

T-Blade female plug accepts tools with 15 amp and 20 amp plugs. No need for two cords with different female plug configurations. T-Blade on female plug only. Individually packaged in easy-to-carry corrugated display box.



WD-82737

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2991	10/3	SJTW	50'	yellow	20A	2
WD-2992	10/3	SJTW	100'	yellow	20A	2

Woods' T-Blade Female Plug

Accommodates these Male Tool Plugs



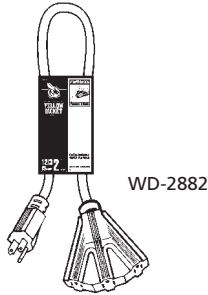
15A, 2-wire

15A, 3-wire

20A, 3-wire

Yellow Jacket® Power Blocks

Yellow Jacket® Power Block three-outlet adapters with exclusive high-gloss, extra durable, super flexible wire. Solid molded power block head stands up to heat, cold and rough use on job sites.



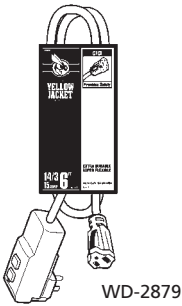
WD-2882



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2827	12/3	SJTW	50'	yellow	15A	4
WD-2820	12/3	SJTW	100'	yellow	15A	2
<i>Extra heavy duty 600V insulated wire.</i>						
WD-2882	12/3	STW	2'	yellow	15A	10

Yellow Jacket® with Ground Fault Circuit Interrupters

Yellow Jacket® GFCI cords have either a male plug or an in-line ground fault circuit interrupter. Provides maximum safety. Manual test/reset buttons. Powerlite™ plugs glow when the cord has power.



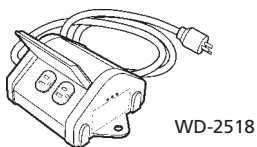
WD-2879



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2879	14/3	SJTW	6'	yellow	15A	6
WD-2877	12/3	SJTW	2'	yellow	15A	10
<i>With 3-outlet power block.</i>						
WD-2814	12/3	SJTW	2'	yellow	15A	10
<i>With 3-outlet black molded power block. Without PowerLite.</i>						
WD-2848	12/3	SJTW	2'	yellow	15A	6
<i>PowerBlock convenience. In-line GFCI</i>						
WD-82816	12/3	SJTW	2'	yellow	15A	6
<i>In-line GFCI.</i>						
WD-82817	12/3	SJTW	2'	yellow	15A	6

Yellow Jacket® GFCI Power Stations

New Quad and Duplex GFCI protected power stations feature angled outlets allowing water to run-off for a safer electrical connection. A self-hinged door protects each set of outlets.



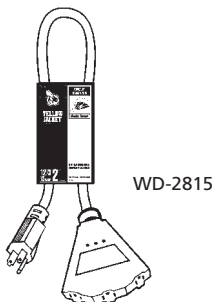
WD-2518



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
<i>Duplex Box – 15 AMP</i>						
WD-2517	12/3	SJTW	6'	yellow	15A	6
<i>Quad Box – 15 AMP</i>						
WD-2518	12/3	SJTW	6'	yellow	15A	4
<i>Quad Box – 20 AMP</i>						
WD-2526	12/3	SJTW	6'	yellow	20A	4

Yellow Jacket® with Circuit Analyzer Power Block

Yellow Jacket® exclusive circuit analyzer cord checks the outlet's circuit for ground and polarity as required in OSHA standard 1910.304. 600 Volt jacket.



WD-2815



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2815	12/3	STW	2'	yellow	15A	10

Yellow Jacket® Work Light with Protective Guard

Features exclusive high-gloss Yellow Jacket® super flexible wire, high heat-resistant bulb collar, grounded metal guard, 13 amp grounded receptacle in handle and dual hooks. Hex shape cage helps direct light where needed. Coated wire cage keeps hot reflector from skin or upholstery. 100 watt bulb rating.



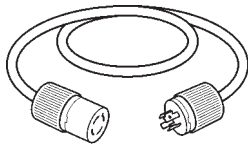
WD-2893



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2893	16/3	SJT	25'	yellow	13A	12
WD-2948	16/3	SJT	50'	yellow	13A	4

Yellow Jacket® Generator Cords

Yellow Jacket® generator cords are the best solution for your temporary power needs. The 6' length is affordable and convenient. The added twist-to-lock feature ensures a locked connection.



WD-1493

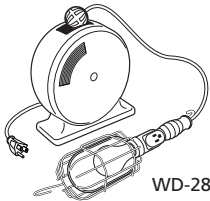


Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
<i>30 AMP power cord with twist-to-lock male and female plugs.</i>						
WD-1493	10/4	SJEOW	6'	yellow	30A	3

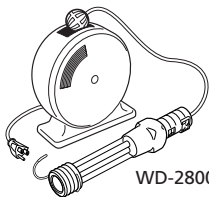
ACDelco

AC Delco Pro-Series Retractable Cord Reels

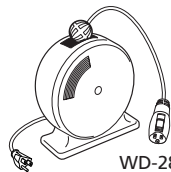
Products designed for the garage and workshop pro. New cord reels, oil-resistant power cords, drop lights and cool-burning fluorescent lights. Improved features and easy to install hardware.



WD-28000



WD-28002

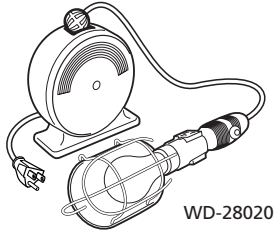


WD-28004

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	Bulb Rating	125V Rating	Std Pack
<i>Red, metal, retractable cord reel with flexible SVT cord and drop light.</i>							
WD-28000	18/3	SVT	50'	black	100W	10A	3
<i>Red, metal, retractable cord reel with convenience of a three outlet banana plug.</i>							
WD-28001	14/3	SJT	30'	black		15A	3
<i>Red, metal, retractable cord reel with flexible SVT cord and cool-burning 13 watt fluorescent light. New flashlight type end (ballast in handle w/outlet).</i>							
WD-28002	16/3	SVT	40'	black	13W	13A	3
<i>Red, metal, retractable cord reel with patented locking plug allows for easy switch-over of accessories.</i>							
WD-28003	16/3	SJT	30'	black		13A	3
WD-28004	14/3	SJT	30'	black		15A	3

AC Delco DIY Series Retractable Cord Reels

Retractable cord reels include flexible SVT cord and black plastic housing. Includes mounting hardware integrated into the base.

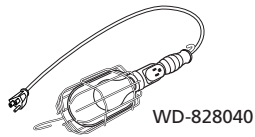


WD-28020

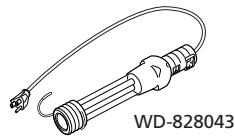
Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	Bulb Rating	125V Rating	Std Pack
<i>Retractable drop light with outlet, a circuit breaker and metal cage.</i>							
WD-28020	18/3	SVT	20'	black	100W	7A	3
<i>Retractable fluorescent light with flashlight type end (ballast in handle w/outlet).</i>							
WD-28021	18/2	SVT	20'	black	13W	10A	3
<i>Retractable cord reel with single plug. Match with accessories.</i>							
WD-28022	16/3	SVT	20'	black		13A	3

AC Delco Accessories

Mix and match cord reel attachments.



WD-828040

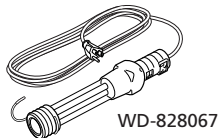


WD-828043

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	Bulb Rating	125V Rating	Std Pack
<i>Drop light with 360 degree coated wire cage for increased safety. With outlet.</i>							
WD-828040	16/3	SJT	2'	black	100W	13A	6
<i>Drop light with plastic reflector and guard.</i>							
WD-828041	18/2	SJT	2'	black	75W	—	8
<i>Convenient 3-outlet Banana Plug.</i>							
WD-828042	16/3	SJT	2'	black		13A	8
<i>Cool burning fluorescent light with new flashlight type end (ballast in handle w/outlet).</i>							
WD-828043	16/3	SJT	2'	black	13W	13A	6
<i>Cool burning fluorescent light with new flashlight type end (ballast in handle).</i>							
WD-828044	18/2	SJT	18"	black	13W	10A	6

AC Delco Fluorescent Lights

NEW Fluorescent Work Lights feature ballasts in handle and handy flashlight type endcap.



WD-828067

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	Bulb Rating	125V Rating	Std Pack
<i>Cool burning fluorescent light with ballast in handle and flashlight type endcap.</i>							
WD-828066	18/2	SJT	20'	black	13W	—	6
<i>Cool burning fluorescent light with ballast and outlet in handle, flashlight type endcap.</i>							
WD-828067	16/3	SJT	25'	black	13W	—	6
<i>Full length reflector for more light over the workbench or engine. Not available with flashlight endcap.</i>							
WD-828068	18/2	SJT	25'	black	15W	—	6
<i>Cool burning fluorescent light with ballast and outlet in handle, flashlight type endcap.</i>							
WD-828069	16/3	SJT	6'	black	13W	—	6

AC Delco Oil-Resistant Power Cords

Oil resistant cords resist oil and fuel and are perfect for use in the garage or workshop. Oil resistant cords stay flexible and durable even in prolonged oily environments.



WD-828087

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-828086	12/3	SJTOW	25'	black	15A	4
WD-828088	14/3	SJTOW	40'	black		4
<i>Power Block with three convenient outlets.</i>						
WD-828085	12/3	STOW	2'	black	15A	8
WD-828087	14/3	SJTOW	25'	black	15A	5

AC Delco Drop Lights

Quality drop lights for safety on the road or in the garage.



WD-828115

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	Bulb Rating	125V Rating	Std Pack
<i>Keep this drop light in your trunk for emergencies. Low-voltage, clips to your car battery.</i>							
WD-828115	18/2	SPT-2	20'	black	50W	12Volt	6
<i>Drop light with 360 degree coated wire cage for increased safety. The oil resistant cord is perfect for the auto mechanic's garage. 100 watt bulb rating with outlet.</i>							
WD-828135	16/3	SJTOW	25'	black	100W	13A	6
<i>Plastic guard with wwitch. No outlet.</i>							
WD-828136	18/2	SJTW	25'	black	75W	—	6

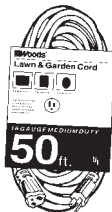
OUTDOOR – ROUND VINYL

Extension Cords

Woods' outdoor cords are manufactured with stranded and cabled copper conductors and solid molded plugs for longer life. Outer jacket won't mark floors or walls. Woods' SJTW-A cords resist deterioration from moisture and abrasion and have a 300 Volt rating. All sides of the packages repeat selling copy to help consumers select the right cord for the job.



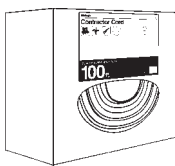
WD-0258



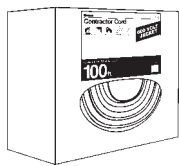
WD-0268



WD-0517



WD-0518



WD-0630

2-Conductor

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0257	16/2	SJTW	8'	black	13A	15
WD-0258	16/2	SJTW	15'	black	13A	15
WD-0720	16/2	SJTW	8'	orange	13A	15
WD-0721	16/2	SJTW	15'	orange	13A	15
WD-0722	16/2	SJTW	25'	orange	13A	12
WD-0723	16/2	SJTW	50'	orange	13A	12
WD-0725	16/2	SJTW	75'	orange	10A	6
WD-0724	16/2	SJTW	100'	orange	10A	6

3-Conductor

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0260	16/3	SJTW	8'	black	13A	15
WD-0261	16/3	SJTW	15'	black	13A	12
WD-2356	16/3	SJTW	8'	white	13A	15
WD-2222	16/3	SJTW	20'	white	13A	12
WD-0265	16/3	SJTW	8'	orange	13A	15
WD-0266	16/3	SJTW	15'	orange	13A	12
WD-0267	16/3	SJTW	25'	orange	13A	12
WD-0268	16/3	SJTW	50'	orange	13A	12
WD-0269	16/3	SJTW	100'	orange	10A	6
WD-8229	16/3	SJTW	150'	orange	10A	4
WD-0625	14/3	SJTW	25'	orange	15A	12
WD-0626	14/3	SJTW	50'	orange	15A	6
WD-0627	14/3	SJTW	100'	orange	13A	3
WD-0528	12/3	SJTW	25'	orange	15A	6
WD-0529	12/3	SJTW	50'	orange	15A	4
WD-0530	12/3	SJTW	100'	orange	15A	2
<i>10 gauge, extra heavy duty. Clear molded PowerLite™ plugs. 20 AMP capacity.</i>						
WD-0517	10/3	SJTW	50'	orange	20A	2
WD-0518	10/3	SJTW	100'	orange	20A	2
<i>Double-thick outer jacket for longer life. 600V rated. Corrugated carton.</i>						
WD-0629	12/3	STW	50'	orange	15A	2
WD-0630	12/3	STW	100'	orange	15A	2

High Visibility Safety Cords

Black and yellow, red and black or blue and black striped cord designed for high visibility on the job site or at home.



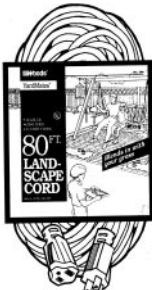
WD-2446



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0521	14/3	SJTW	50'	black/yellow	15A	6
WD-0522	14/3	SJTW	100'	black/yellow	13A	3
WD-2443	12/3	SJTW	50'	blue/black	15A	4
WD-2444	12/3	SJTW	100'	blue/black	15A	2
WD-2446	12/3	SJTW	50'	red/black	15A	4
WD-2447	12/3	SJTW	100'	red/black	15A	2

YardMates® Landscape Cords

Green cord blends with outdoors. For use with lighting, bug zappers, rotisseries, spas, etc. Great for holiday lighting, too. Cross-merchandise with outdoor living products.



WD-0394



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0234	16/2	SJTW	40'	green	13A	12
WD-0235	16/2	SJTW	80'	green	10A	6
WD-0393	16/3	SJTW	40'	green	13A	12
WD-0394	16/3	SJTW	80'	green	10A	6

Power block on female plug with three grounded outlets.

WD-8412	16/3	SJTW	35'	green	13A	9
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DeckMates® Deck Cords

Soft beige cord color won't detract from the beauty of decking or mulch. White cords are perfect for today's decor on the patio or inside the home. For outdoor living appliances, decorative lighting, and holiday lighting. In full-color, lifestyle packaging.



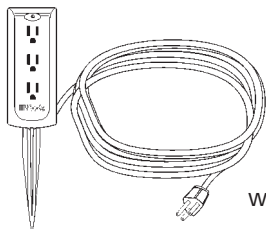
Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2387	16/3	SJTW	20'	beige	13A	12
WD-0385	16/3	SJTW	40'	beige	13A	12
WD-8386	16/3	SJTW	80'	beige	10A	6
WD-2383	16/3	SJTW	20'	white	13A	12
WD-2382	16/3	SJTW	40'	white	13A	12

Power Block on female plug with three grounded outlets.

WD-2389	16/3	SJTW	25'	beige	13A	12
WD-0389	14/3	SJTW	25'	beige	15A	12

YardStake™

Power stake with three outlets provides outdoor power where you need it. The rotating head moves as you work around the yard.



WD-2429

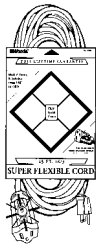


Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2429	16/3	SJTW	25'	green	120V/150W	4

Super Flexible All-Season Cords

Features PowerLite Plug and Full Lifetime Guarantee!

Woods' super flexible cords are the best yard and home cords. Neon light embedded in a solid, clear female outlet assures consumers that they have power. Durable outer jacket is more flexible at any temperature than standard vinyl compounds. Bright, full-color packaging.



WD-2900

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2900	16/3	SJTW	25'	yellow	13A	6
WD-2897	16/3	SJTW	50'	yellow	13A	6
WD-2898	16/3	SJTW	100'	yellow	10A	4

Tool Saver Circuit Breaker Cords

Woods' tool saver circuit breaker cords protect valuable tools from damaging overload. Each cord has a reset button built into the male plug. Circuit breakers matched to cord's capacity. Drummer award-winning brilliant red packaging sells the consumer at retail.



WD-2405

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2401	16/3	SJTW	25'	black	13A	12
WD-2402	16/3	SJTW	50'	black	13A	12
WD-2403	16/3	SJTW	100'	black	10A	6
WD-2404	14/3	SJTW	25'	black	15A	12
WD-2405	14/3	SJTW	50'	black	15A	6
WD-2406	14/3	SJTW	100'	black	13A	3
WD-2407	12/3	SJTW	50'	black	15A	4
WD-2408	12/3	SJTW	100'	black	15A	2
<i>Power block version with solid molded three-outlet female. 600V jacket.</i>						
WD-2414	12/3	STW-A	2'	black	15A	10

3-Outlet Power Blocks

Power blocks are made with solid molded three-outlet plugs. Convenient three-outlet plug saves the cost and clutter of running two or three cords for tools and appliances around the home or job site. 300 volt rating.



WD-0826

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0825	14/3	SJTW	25'	orange	15A	12
WD-0826	14/3	SJTW	50'	orange	15A	6
WD-0827	14/3	SJTW	100'	orange	13A	4
WD-0819	12/3	SJTW	50'	orange	15A	3
WD-0820	12/3	SJTW	100'	orange	15A	2
<i>Three-conductor, extra heavy duty 600V insulated wire.</i>						
WD-0824	12/3	STW	2'	orange	15A	10

OUTDOOR – COLD FLEX

Extension Cords

Now more flexible at colder temperatures!

Woods' cold flex cords are designed for use in cold environments. They stay flexible down to -58°F. Manufactured with molded solid plugs. The outer jacket resists deterioration from moisture, abrasion, and extended exposure to sunlight.



WD-0663

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0655	16/3	SJTW	15'	blue	13A	12
WD-0656	16/3	SJTW	25'	blue	13A	12
WD-0657	16/3	SJTW	50'	blue	13A	12
WD-0658	16/3	SJTW	100'	blue	10A	6
WD-0662	14/3	SJTW	25'	blue	15A	12
WD-0663	14/3	SJTW	50'	blue	15A	6
WD-0664	14/3	SJTW	100'	blue	13A	3
WD-0668	12/3	SJTW	25'	blue	15A	12
WD-0669	12/3	SJTW	50'	blue	15A	6
WD-0670	12/3	SJTW	100'	blue	15A	3

Cold Flex 3-Outlet Power Blocks

Power blocks save the cost and clutter of running two or three cords for tools and appliances around the home or job site.



WD-0675

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0675	12/3	SJTW	50'	blue	15A	5
WD-0676	12/3	SJTW	100'	blue	15A	3

Outdoor – Cold Flex now with Lighted Plugs

Woods' improved cold flex cords are now available with PowerLite™ indicator plugs.



WD-2628

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2434	16/3	SJTW	25'	blue	13A	12
WD-2435	16/3	SJTW	50'	blue	13A	12
WD-2436	16/3	SJTW	100'	blue	13A	12
WD-2627	14/3	SJTW	25'	blue	15A	6
WD-2628	14/3	SJTW	50'	blue	15A	6
WD-2629	14/3	SJTW	100'	blue	13A	3
WD-2437	12/3	SJTW	25'	blue	15A	12
WD-2438	12/3	SJTW	50'	blue	15A	6
WD-2439	12/3	SJTW	100'	blue	15A	3

Cord Master – Coiled Safety Cord

Plugs into your extension cord, clips snugly to your belt and keeps cord out of the way. Retracts to 9" and stretches to 60". Ideal for hedge trimmers, lawn mowers, sanders, etc.



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0441	16/3	SJEW	60"	black	13A	6

OIL & FUEL RESISTANT

AGRI-PRO™ Farm-Tough Cords

Woods' AGRI-PRO™ outdoor extension cords are oil and fuel resistant and stand up to common farm, ranch and industrial chemicals. These cords are designed specifically for farm environments and remain flexible in all temperatures. Regular SJT cords absorb oil and become brittle and swell.



WD-2457



WD-2451



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2452	14/3	SJTOW	50'	black	15A	6
WD-2457	12/3	SJTOW	50'	black	15A	4
WD-2458	12/3	SJTOW	100'	black	15A	3
<i>Power Block with three convenient outlets.</i>						
WD-2451	14/3	SJTOW	25'	black	15A	12

Oil Resistant Cords

Woods' oil resistant cords resist oil and fuel and are perfect for use in the garage or workshop. Oil resistant cords stay flexible and durable even in prolonged exposure to sunlight. New package.



WD-82477



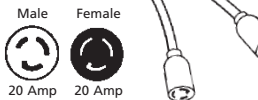
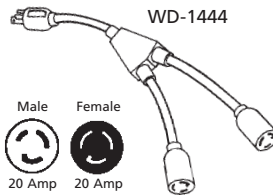
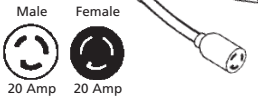
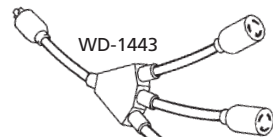
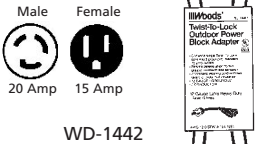
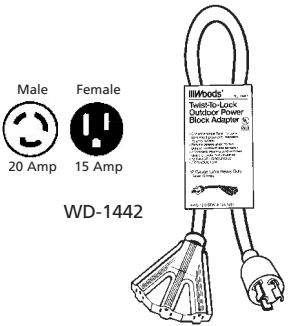
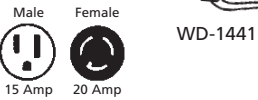
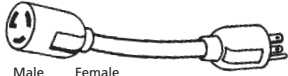
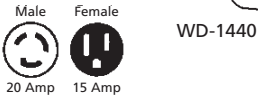
WD-82471



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-82477	12/3	SJTOW	15'	black	15A	4
WD-82478	12/3	SJTOW	50'	black	15A	6
WD-82479	12/3	SJTOW	100'	black	15A	3
<i>Power block with three convenient outlets.</i>						
WD-82471	14/3	SJTOW	25'	black	15A	5

Twist-To-Lock

Woods' Twist-To-Lock program is designed to serve the needs of contractor customers. Manufactured with stranded copper conductors, double thick 600 volt insulation, bright yellow jackets and solid molded plugs for longer life. **Not Yellow Jacket™ compound.**



WD-1445

Adapters

Cat #	Description	Length	Gauge/ Cond	Cord Color	125V Rating	Std Pack
WD-1440	Twist-to-lock outdoor power cord adapter converts a twist-to-lock 20 Amp receptacle to an outlet that accepts 15A or 20A male plugs.	9"	12/3	yellow	20A	6
WD-1441	Twist-to-lock outdoor power cord adapter converts a standard 15 Amp grounded receptacle to a Twist-to-lock 20 Amp receptacle.	9"	12/3	yellow	15A	6
WD-1442	Twist-to-lock outdoor power block adapter converts a single Twist-to-lock cord into 3 grounded, standard 15 Amp outlets.	2'	12/3	yellow	15A	6

"W" Adapters

Cat #	Description	Length	Gauge/ Cond	Cord Color	125V Rating	Std Pack
WD-1443	Twist-to-lock outdoor "W" adapter converts a single twist-to-lock cord into 3 individual twist-to-lock outlets.	20"	12/3	yellow	20A	6

"Y" Adapters

Cat #	Description	Length	Gauge/ Cond	Cord Color	125V Rating	Std Pack
WD-1444	Twist-to-lock outdoor "Y" adapter converts a single twist-to-lock cord into 2 individual twist-to-lock outlets.	20"	12/3	yellow	20A	6

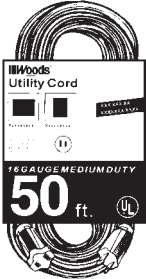
Extra Heavy Duty Power Cords

Cat #	Description	Length	Gauge/ Cond	Cord Color	125V Rating	Std Pack
WD-1445	Twist-to-lock outdoor power cord extra heavy duty. Individually packaged in easy-to-carry corrugated display box.	50'	12/3	yellow	20A	2
WD-1446	Twist-to-lock outdoor power cord extra heavy duty. Individually packaged in easy-to-carry corrugated display box.	100'	12/3	yellow	15A	2

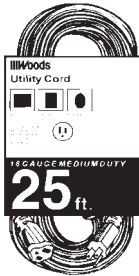
INDOOR UTILITY

Extension Cords – Flat Vinyl

Woods' utility cords are designed for general purpose indoor use. All feature solid molded plugs and stranded all-copper conductors. Made with tough vinyl insulation that won't mark walls or floors and resists deterioration from moisture and abrasion.



WD-0592

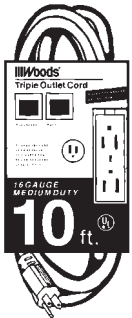


WD-0834

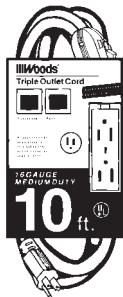
Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0591	16/2	SPT-2	25'	yellow	13A	15
WD-0592	16/2	SPT-2	50'	yellow	13A	12
WD-0593	16/2	SPT-2	100'	yellow	10A	10
<i>Not UL listed. Manufactured to industry standards. UL will currently not list 3-conductor SPT cordsets over 10 feet in length.</i>						
WD-0831	16/3	SPT-2	25'	yellow	13A	12
WD-0832	16/3	SPT-2	50'	yellow	13A	12
WD-0833	16/3	SPT-2	100'	yellow	10A	6
WD-0834	14/3	SPT-3	25'	yellow	15A	12
WD-0835	14/3	SPT-3	50'	yellow	15A	6
WD-0836	14/3	SPT-3	100'	yellow	13A	6
WD-0837	12/3	SPT-3	25'	yellow	15A	12
WD-0838	12/3	SPT-3	50'	yellow	15A	6
WD-0839	12/3	SPT-3	100'	yellow	15A	3

3-Outlet Power Tap Extension Cords

Solid molded power taps give you the convenience of three outlets in a compact design. For outdoor use, choose three-outlet power blocks on page 20.



WD-2865



WD-82866

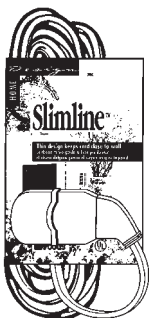
Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0814	16/3	SPT-2	3'	orange	13A	12
WD-0864	16/3	SJTW	9'	green	13A	12
WD-2864	16/3	SJTW	9'	orange	13A	12
WD-2865	16/3	SJTW	10'	beige	13A	12
WD-82867	16/3	SJTW	20'	grey	13A	6
WD-0859	16/3	SJTW	20'	green	13A	12
WD-0863	14/3	SPT-3	3'	yellow	15A	12
WD-8872	14/3	SJTW	9'	orange	15A	12
<i>With in-line on/off switch.</i>						
WD-82866	16/3	SJTW	10'	beige w/switch	10A	10

HOME DESIGN™

Woods' Home Design™ program offers indoor extension cords with problem-solving designs, decorator colors and designer packaging. This program provides many indoor cord space-saving and safety solutions.

Slimline™ Household Extension Cords

Thin male plugs keep cord close to the wall. Lets customers safely place furniture against the baseboard. Plug does not block other outlet. Soft strap makes it easy to pull plug from the wall. Three-foot cords are perfect for countertops, work surfaces, shelving, and stereo cabinets.



WD-2235

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2235	16/2	SPT-2	3'	white	13A	12
WD-2236	16/2	SPT-2	7'	white	13A	12
WD-2237	16/2	SPT-2	13'	white	13A	12
WD-2238	16/2	SPT-2	3'	black	13A	12
WD-2239	16/2	SPT-2	7'	tan	13A	12
WD-2240	16/2	SPT-2	13'	tan	13A	12
WD-2241	16/3	SPT-2	8'	white	13A	6
WD-82243	16/3	SPT-2	8'	black	13A	8
WD-2232	16/3	SPT-2	13'	white	13A	6

PivotPlug™ Household Extension Cords

The PivotPlug™ is the only right angle slim design extension cord plug that allows the consumer to direct the cord left, right or up the wall. The thin plug allows furniture and appliances to be close to the wall. The right angle design allows the cord to neatly hug the wall. Many outlets are installed upside-down, so a polarized Slimline™ cord would have to be inserted with the cord curling up the wall. With PivotPlug,™ the cord goes where you want.



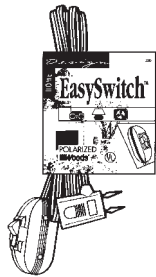
WD-2766



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2766	16/2	SPT-2	8'	white	13A	6
WD-2772	16/2	SPT-2	8'	black	13A	6
WD-2774	16/3	SPT-2	8'	white	13A	6
WD-2776	16/3	SPT-2	8'	black	13A	6

EasySwitch™ Household Extension Cords

The EasySwitch™ provides the convenience of an on/off switch that can be placed for easy access. To use, plug the EasySwitch™ into an outlet, then plug a lamp, fan or other appliance into the unique piggyback plug. Extend the switch to a convenient location for easy power control.



WD-0359



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0359	16/2	SPT-2	15'	brown	10A	10
WD-0359W	16/2	SPT-2	15'	white	10A	10
WD-0359H	16/2	SPT-2	15'	hunter green	10A	10

Tri-WayCord™

The Tri-WayCord™ rounds out the Home Design™ program as the big brother to the traditional cube tap. It features three conductors and three outlets.



WD-0608



Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0608	16/3	SPT-2	8'	brown	13A	10
WD-0609	16/3	SPT-2	8'	white	13A	10
WD-2610	16/3	SPT-2	8'	beige	13A	10
WD-2611	16/3	SPT-2	8'	black	13A	10

OFFICE PRODUCTS

Office Cords

Woods' extension cords are manufactured with three polarized outlets in a solid molded plug for convenient use indoors. Each cord comes with a safety cover attached so unused outlets may be covered.



WD-5606

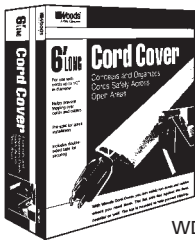


WD-5607

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
2 Conductor, Triple Outlet						
WD-5606	16/2	SJTW	10'	grey	13A	25
3 Conductor, Single Outlet						
WD-5601	16/3	SJTW	25'	black	13A	12
WD-2606	16/3	SJTW	40'	black	13A	12
3 Conductor, Triple Outlet						
WD-5607	16/3	SJTW	10'	grey	13A	10
WD-5754	16/3	SJTW	20'	grey	13A	12

Cord Covers

With Woods' cord covers, customers can run cords and cables where they need them. The flat side lies against the floor, counter or wall. The top is rounded to reduce the likelihood of tripping.



WD-5610

Cat #	Description	Color	Std Pack
WD-5610	6', 1/2" Cord Channel	putty	6
WD-5612	6', 1/2" Cord Channel	black	6

INDOOR CORDS

Household Extension Cords (Cube Taps)

Woods' Household extension cords are manufactured with three polarized outlets in a solid molded plug for convenient use indoors. Each cord comes with a safety cover attached so unused outlets may be covered.



WD-0600



WD-0870

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0600	16/2	SPT-2	6'	brown	13A	25
WD-0600W	16/2	SPT-2	6'	white	13A	25
WD-0601	16/2	SPT-2	9'	brown	13A	25
WD-0601W	16/2	SPT-2	9'	white	13A	25
WD-0602	16/2	SPT-2	12'	brown	13A	25
WD-0602W	16/2	SPT-2	12'	white	13A	25
WD-0603	16/2	SPT-2	15'	brown	13A	25
WD-0603W	16/2	SPT-2	15'	white	13A	25

Holiday Cord

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0870	16/2	SPT-2	15'	green	13A	25

Christmas Tree Cord

Three 3-outlet taps in-line for a total of nine outlets. With switch and fused male plug. Available August through December only. For use only with indoor decorative light strings.



WD-2189

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2189	16/2	SPT-2	15'	green	7A	25

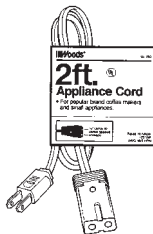


Household Appliance Cords

Woods' assortment of household appliance cords includes the most popular cords for vacuum cleaners, irons and other small electrical appliances. With a range of plug configurations.



WD-0540



WD-0293



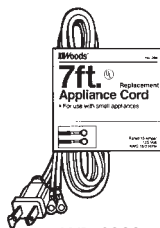
WD-0290



WD-0291



WD-0295



WD-0288



WD-0292

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0540	18/2	SVT	20'	grey	10A	15
WD-0293	18/2	HPN	2'	black	10A	10
WD-0294	18/2	HPN	6'	black	10A	10
WD-0290	16/2	HPN	6'	black	15A	10
WD-0291	18/2	HPN	6'	black	10A	10
WD-0295	18/2	SPT-2	6'	brown	7A	10
WD-0292	16/2	HPN	6'	black	15A	10
WD-0288	16/2	HPN	7'	black	15A	10

Finely stranded, very flexible cord. For use with polarized vacuum cleaners, office equipment, floor polishers, etc. Not UL listed.

Slotted miniature plug fits electric coffee makers, frypans and other small kitchen appliances with 1/2" spacing between contacts.

Fits all standard brand roasters, broilers and deep fryers using pin spacing of 1-1/16".

Fits all kitchen appliances using 11/16" spacing between contacts such as waffle irons, grills, and bottle warmers.

For use with pin-type construction such as mixers, electric knives, warming trays and calculators using 5/16" spacing between contacts.

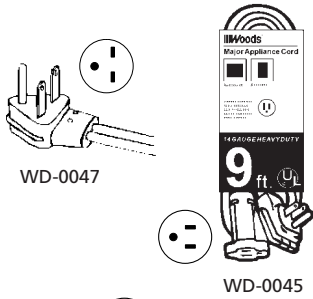
Polarized for heat-producing appliances.

Replacement cord for non-polarized irons and appliances.



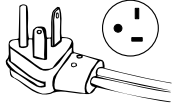
Major Appliance Cords

Woods' major appliance cords for air conditioners, ranges and dryers feature heavy duty vinyl insulation and right angle plugs.



WD-0047

WD-0045



WD-0568

Air Conditioner/Refrigerator

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-0043	14/3	SPT-3	3'	beige	15A	15
WD-0044	14/3	SPT-3	6'	beige	15A	15
WD-0045	14/3	SPT-3	9'	beige	15A	15
WD-0046*	14/3	SPT-3	12'	beige	15A	12
WD-0047*	14/3	SPT-3	15'	beige	15A	12

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	250V Rating	Std Pack
WD-88447	14/3	SPT-3	6'	beige	15A	10
WD-0568	12/3	SPT-3	9'	grey	20A	12
WD-0448	12/3	SPT-3	9'	grey	15A	12

*Not UL listed. UL will currently not list 3-conductor SPT cordsets over 10 feet in length.

Power Supply Replacement Cords

Woods' replacement cords are designed for use on appliances, power tools, lamps, water coolers, air conditioners, dryers, ranges and garbage disposals. Includes instructions for replacing worn or damaged cords.



WD-0974

Range, 3-Conductor with Strain Relief

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	250V Rating	Std Pack
WD-0984	6/2 & 8/1	SRDT	4'	grey	50A	6
WD-0985	6/2 & 8/1	SRDT	5'	grey	50A	6
WD-0986	6/2 & 8/1	SRDT	6'	grey	50A	6

Range, 4-Conductor with strain relief

WD-0761	6/2 & 8/2	SRDT	4'	grey	45A	12
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Dryer, 3-Conductor with strain relief

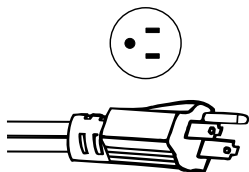
WD-0974	10/3	SRDT	4'	grey	30A	6
WD-0975	10/3	SRDT	5'	grey	30A	6
WD-0976	10/3	SRDT	6'	grey	30A	6

Dryer, 4-Conductor with strain relief

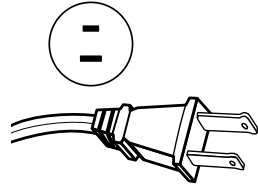
WD-0768	10/4	SRDT	4'	black	30A	12
WD-88769	10/4	SRDT	6'	black	30A	5

General Purpose

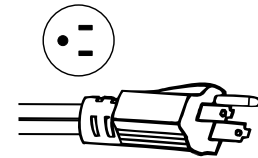
Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
<i>Right angle male cap. Packaged bulk. Appliance end slit 1-1/4", insulation stripped 3/8".</i>						
WD-88570	16/3	SPT-3	3'	grey	13A	20
WD-0573	16/3	SPT-3	6'	grey	13A	50
<i>Straight angle male cap. Packaged bulk. Appliance end slit 1-1/4", insulation stripped 3/8".</i>						
WD-0464	16/3	SPT-3	6'	grey	13A	50



WD-0464



WD-0588, WD-8644



WD-88438, WD-0589,
WD-0951, WD-0653

Power Tool/Appliance

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
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Vinyl for power tools or appliances. Tool end slit 1-1/4", insulation stripped 3/8".

WD-0588	16/2	SJTW	8'	black	13A	25
WD-88438	16/3	SJTW	6'	black	13A	25
WD-0589	16/3	SJTW	8'	black	13A	25

More flexible and durable in very cold or hot environments. TPE jacket.

WD-0951	16/3	SJTW	10'	black	13A	25
WD-0953	14/3	SJTW	10'	black	15A	25

Small Appliance

Vinyl for small appliances. Appliance end slit 1-1/4", insulation stripped 3/8".

WD-8644	18/2	SPT-1	9'	brown	10A	40
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Air Conditioner

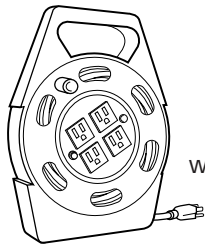
Right angle male cap. Packaged bulk. Appliance end slit 1-1/4", insulation stripped 3/8".

WD-88549	14/3	SPT-3	6'	grey	15A	25
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CORD MANAGEMENT

Cord Management

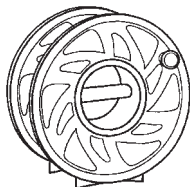
This program features a great assortment of products from a traditional cord reel to the latest design in tangle-free cord holders, straps and wall brackets. Your customers will find the right products in colorful, descriptive packaging.



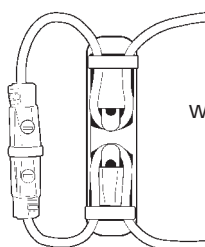
WD-2801



WD-2849

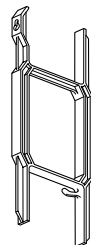


WD-2870



WD-2804

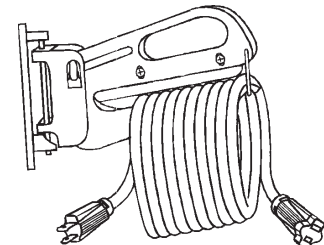
Cat #	Description	Color	Package	Std Pack
WD-2801	PowerCaddy + 25' 16/3 black extension cord included, 4 grounded outlets, 10 Amp circuit breaker, convenient slotted holes on the bottom for wall mounting.	black/yellow	hang tag	3
WD-2849	Detachable Cord Reel with Stand 13" reel, easy-release lock allows the cord reel to separate from the stand.	black/yellow	hang tag	3
WD-2870	Cord Reel 13" reel holds 150' of 16/3 extension cord.	black/yellow	hang tag	3
WD-2804	Twin Cleat™ Cord Lock Tough and durable with no loose parts, no screws or adjustments, works with 16 and 14 gauge cords. The only UL approved cord lock. Doesn't put strain on plug.	yellow	carded	12
WD-2803	Cord Caddy Built-in carry handle, rugged one-piece construction.	black	carded	12
WD-2802	Carry Strap One-piece construction, holds up to 150' of 16/3 cord.	black	carded	12
WD-2876	Cord Controller with Wall Bracket Adjusts to hold 18 to 12 gauge cord. Wall bracket stores cord tangle-free, pivots left and right and flips up for out-of-the-way storage.	black	blistercard	6



WD-2803



WD-2802

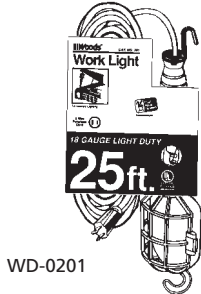


WD-2876

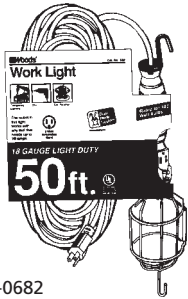
TASK LIGHTING

Work Lights - Round Vinyl

Meets OSHA Specifications for temporary lighting. All work lights feature our unique patented DUAL HOOK SYSTEM which permits hanging the work light by either its guard or handle. Rugged heat-resistant housing stays cool even with short neck bulbs. The round orange vinyl jacket is flexible, easy to see and won't mark floors or walls. All 3-conductor lights are UL rated for 100 watt bulbs.



WD-0201



WD-0682

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	Bulb Rating	125V Rating	Std Pack
Plastic Guard with switch, no outlet							
WD-0200	18/2	SJTW	15'	orange	75W	—	12
WD-0201	18/2	SJTW	25'	orange	75W	—	12
Metal grounded guard with switch and grounded outlet.							
WD-8199	18/3	SJTW	6'	orange	100W	10A	12
WD-0680	18/3	SJTW	15'	orange	100W	10A	12
WD-0681	18/3	SJTW	25'	orange	100W	10A	12
WD-0682	18/3	SJTW	50'	orange	100W	10A	6
WD-0691	16/3	SJTW	25'	orange	100W	13A	12
WD-0692	16/3	SJTW	50'	orange	100W	13A	6
Metal grounded guard, built-in Circuit Breaker, switch and grounded outlet.							
WD-0649	16/3	SJTW	25'	orange	100W	13A	12
Super flexible wire, 13 amp receptacle in handle and coated wire cage keeps hot reflector from skin.							
WD-2893	16/3	SJTW	25'	yellow	100W	13A	12
WD-2948	16/3	SJTW	50'	yellow	100W	13A	4

Flood & Clamp Lamps

Woods' selection of quality clamp lamps has many uses around the home, office or shop. All lamps are made with tough, heat-resistant sockets in accordance with UL. Most are made with vented aluminum reflectors, push-through switches, and strong double-swivel clamps with vinyl grips.



WD-0160



WD-0151



WD-0324



WD-0328

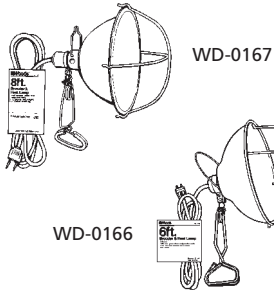


WD-82839

Cat #	Gauge/Cond	Wire Type	Cord Length	Cord Color	Reflector Diameter	125V Rating	Std Pack
WD-0160	18/2	SPT-2	6'	white	5-1/2"	60W	12
WD-0151	18/2	SPT-2	6'	white	8-1/2"	150W	12
Porcelain socket clamp without switch.							
WD-0328	18/2	SPT-2	6'	white	—	150W	12
With bulb protector, sturdy anodized wire construction. Porcelain socket.							
WD-0324	18/2	SPT-2	6'	white	—	150W	12
Without clamp. Not UL listed.							
WD-0135	18/2	SPT-2	9'	white	—	150W	20
Cold Flex TPE cord stays flexible in cold environment.							
WD-0149	18/2	SJEW-A	15'	black	8-1/2"	150W	12
Tight Grip™ heavy duty clamp with extra holding power. Unique clamp design grips pipe, lumber and more.							
WD-82839	18/2	SPT-2	12'	black	8-1/2"	150W	4

Brooder & Heat Lamps

Woods' brooder and heat lamps feature insulated porcelain sockets, heavy gauge aluminum reflectors, hang-up hooks and bulb guards that snap on the reflector, two-conductor, polarized male plugs. Ideal for pig and chicken brooders or as a temporary heat source. Not UL listed.



Cat #	Gauge/ Cond	Wire Type	Cord Length	Cord Color	Reflector Diameter	125V Rating	Std Pack
<i>Cold Flex TPE cord stays flexible in cold environment.</i>							
WD-0163	18/2	SJEW	8'	black	10-1/2"	250W	6
<i>Same as above, but with a sturdy clamp with vinyl coated grips.</i>							
WD-0167	18/2	SJEW	8'	black	10-1/2"	250W	6
<i>Durable vinyl cord.</i>							
WD-0165	18/2	SJTW	6'	black	10-1/2"	250W	12
<i>Same as above, but with a sturdy clamp with vinyl coated grips.</i>							
WD-0166	18/2	SJTW	6'	black	10-1/2"	250W	12

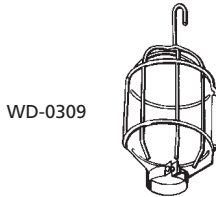
Repair Parts

Woods' quality repair parts for work lights and clamp lamps. All items packed bulk.



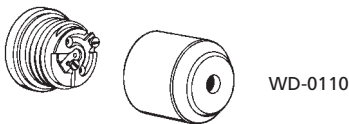
Work Light Parts

Cat #	Description	Rating	Std Pack
WD-0336	Handle, 3 cond. w/switch & outlet	—	10
WD-0309	Guard, metal, swing open	—	10



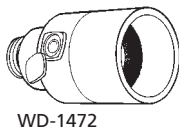
Clamp Lamp and Brooder Light Socket

Cat #	Description	Rating	Std Pack
WD-0110	Socket, porcelain	660W	20



Home Lighting Controls

Woods' home controls offer security, safety and convenience throughout the home. A popular line of timers, sensor controls and night lights in full-color packaging.



Cat #	Description	Rating	Std Pack
Photoelectric Security Lighting Socket			
<i>In full-color clamshell packaging. Automatically on at dusk, off at dawn.</i>			
WD-1472	Outdoor Photoelectric Light Socket. Incandescent only.	120V/300W	6



Landscape Accessories

High impact fixtures resist weather and wear. With wall mount and ground stake.

WD-0430	Floodlight Holder-Bagged	120V/150W	6
WD-0430B	Indoor/Outdoor Floodlight Kit with bulb. In full-color box.	120V/150W	6
WD-2429	Power Stake. 3 grounded outlets, 25' cord.	120V/150W	4



Night/Guide/Closet Lights

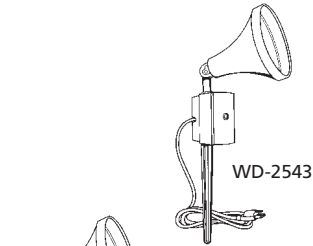
WD-1486	Incandescent Photoelectric Night Light (Mini-Clam)	120V/7W	5
WD-1494A	2 Incandescent Photoelectric Night Lights (Twin Pack - Blisterpacked)	120V/7W	12
WD-2013	Closet Light (Blisterpacked)	2-D Cells	6



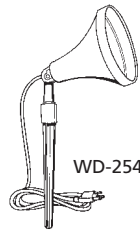
LANDSCAPE LIGHTING

YardMates® Outdoor Lighting

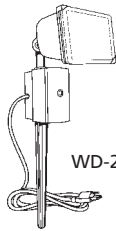
YardMates® features architectural quality lighting and plug-in convenience without the high cost of hardwiring. The lights can be connected together to create a customized lighting system for landscaping, security or recreational applications. Pre-assembled die-cast aluminum lights mean years of maintenance-free use. Tri-lingual packaging.



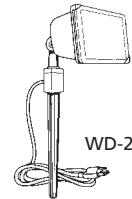
WD-2543



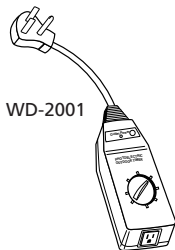
WD-2546



WD-2547



WD-2548



WD-2001

Cat #	Description	Gauge/ Cond	Wire Type	Cord Length	Cord Color	125V Rating	Std Pack
WD-2543	Flood Light with Photoelectric Eye Photoelectric eye turns light on automatically at dusk and off at dawn. Uses 150 Watt, par 38 bulb (not included).	16/3	SJTW	6'	green	13A	4
WD-2546	Flood Light Uses 150 Watt, Par 38 bulb (not included).	16/3	SJTW	6'	green	13A	4
WD-2547	Halogen Light with Photoelectric Eye Photoelectric eye automatically turns light on at dusk and off at dawn. 100 Watt bulb included in the fixture.	16/3	SJTW	6'	green	13A	4
WD-2548	Halogen Light 100 Watt bulb included in the fixture.	16/3	SJTW	6'	green	13A	4
WD-2001	Outdoor Lighting Timer Photoelectric eye automatically turns your YardMates® system on at dusk. 2-8 hours set-back feature. Rated 8A/125V, 1000W.	—	—	—	green	8A	6

BULK WIRE – HOME IMPROVEMENT

Lamp Cord

Description: Thermoplastic jacket. Not for hard usage in accordance with NEC, 16 AWG through 18 AWG, -20°C to 60°C, 300 Volt rating

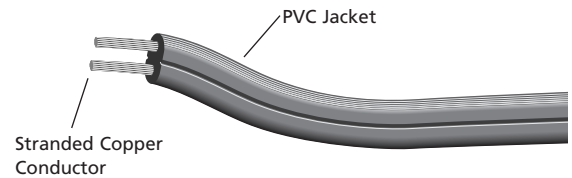
Applications: Lamps, small appliances, radios

Conductor: Soft annealed stranded copper per ASTM B3-90

Insulation: PVC Class 43

Jacket: N/A

Industry Approvals: UL62, UL1581



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0132	SPT-2	16	3	65/34	0.045	N/A	.160 x .385	10A/300V	250'	spool	brown	1	19.0	0.52	078693001321
WD-0136	SPT-2	16	3	65/34	0.045	N/A	.160 x .385	10A/300V	250'	spool	white	1	19.0	0.52	078693001369
WD-0888	SPT-2	16	2	65/30	0.045	N/A	.148 x .286	13A/300V	250'	spool	brown	2	18.5	0.38	078693008887
WD-0889	SPT-2	16	2	65/30	0.045	N/A	.148 x .286	13A/300V	250'	spool	white	2	18.8	0.38	078693008894
WD-0890	SPT-2	16	2	65/30	0.045	N/A	.148 x .286	13A/300V	250'	spool	black	2	18.6	0.38	078693008900
WD-0477	SPT-1	18	2	41/34	0.034	N/A	.110 x .201	10A/300V	250'	spool	brown	2	11.0	0.27	078693004773
WD-0478	SPT-1	18	2	41/34	0.034	N/A	.110 x .201	10A/300V	250'	spool	white	2	11.0	0.27	078693004780
WD-0479	SPT-1	18	2	41/34	0.034	N/A	.110 x .201	10A/300V	250'	spool	black	2	11.0	0.27	078693004797
WD-0480	SPT-1	18	2	41/34	0.034	N/A	.110 x .201	10A/300V	250'	spool	gold	2	11.0	0.27	078693004803
WD-0481	SPT-1	18	2	41/34	0.034	N/A	.110 x .201	10A/300V	250'	spool	silver	2	10.0	0.27	078693004810
WD-0482	SPT-1	18	2	41/34	0.034	N/A	.110 x .201	10A/300V	250'	spool	clear	2	11.0	0.27	078693004827
WD-0800	SPT-1	18	2	41/34	0.034	N/A	.110 x .201	10A/300V	25'	ss pack	brown	12	6.6	0.27	078693008009
WD-0801	SPT-1	18	2	41/34	0.034	N/A	.110 x .201	10A/300V	25'	ss pack	white	12	6.4	0.27	078693008016
WD-0802	SPT-1	18	2	41/34	0.034	N/A	.110 x .201	10A/300V	25'	ss pack	gold	12	6.0	0.27	078693008023

Chandelier Wire

Description: Bare stranded flexible copper wire used for grounding purposes, 18 AWG, single conductor

Applications: Grounding (electrical)

Conductor: Soft annealed stranded copper per ASTM B3-90

Insulation: None

Jacket: None

Industry Approvals: UL



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0893	BARE COPPER	18	1	7/26	N/A	N/A	N/A	N/A	500'	spool	bare	1	3.4	0.21	078693008931

Bell Wire

Description: Type CL2 low voltage cable using thermoplastic insulated solid conductors. Resistant to the spread of fire in accordance with NEC. Not for riser, plenum, or tray uses. 75°C (-20°C), 300 Volt rating, in-wall installation per UL

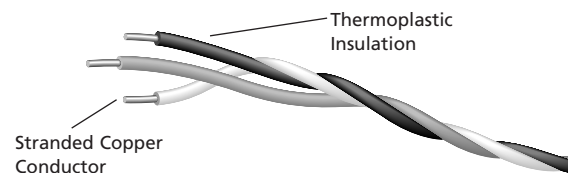
Applications: Thermostat control, burglar alarms, intercoms, door bells

Conductor: Soft annealed solid copper per ASTM B3-90

Insulation: PVC

Jacket: N/A

Industry Approvals: UL13 for power limited circuit cable for other than plenum, riser, or tray uses



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-5408	BELL WIRE	18	3	1/18	0.015	0.020	N/A	300V	500'	spool	red/white/green	2	20.4	0.38	078693054082
WD-5407	BELL WIRE	18	2	1/18	0.015	0.020	N/A	300V	500'	spool	red/white	2	7.4	0.27	078693054075
WD-0330	BELL WIRE	18	2	1/18	0.015	0.020	N/A	300V	100'	ss pack	red/white	5	7.4	0.53	078693003301
WD-0450	BELL WIRE	24	2	1/24	0.015	0.020	N/A	300V	500'	spool	red/white	2	5.6	0.27	078693004506
WD-0453	BELL WIRE	24	2	1/24	0.015	0.020	N/A	300V	50'	ss pack	red/white	10	7.2	0.27	078693004537

Thermostat Wire

Description: Type CL2 low voltage cable using thermoplastic insulated conductors and jacket. Resistant to the spread of fire in accordance with NEC. 18 AWG, 75°C, 300 Volt rating

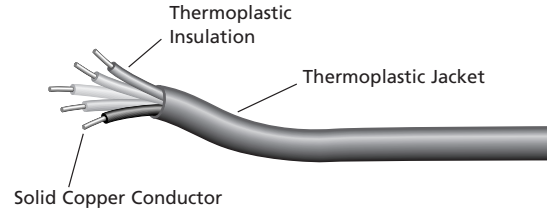
Applications: Thermostat controls, heating and air conditioning installations, burglar alarm systems, intercom systems, door bells

Conductor: Soft annealed solid copper per ASTM B3-90

Insulation: PVC

Jacket: N/A

Industry Approvals: UL13 for power limited circuit cable for other than plenum, riser, or tray uses, UL1581



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-5405	TYPE CL2	18	7	1/18	0.015	0.0235	N/A	300V	250'	spool	brown	1	16.0	0.38	078693054051
WD-5403	TYPE CL2	18	5	1/18	0.015	0.0235	N/A	300V	250'	spool	brown	1	11.2	0.53	078693054037
WD-5401	TYPE CL2	18	3	1/18	0.015	0.0235	N/A	300V	500'	spool	brown	1	16.0	0.38	078693054013
WD-5400	TYPE CL2	18	2	1/18	0.015	0.0235	N/A	300V	500'	spool	brown	1	11.5	0.49	078693054006
WD-5402	TYPE CL2	18	4	1/18	0.015	0.0235	N/A	300V	250'	spool	brown	1	10.8	0.53	078693054020

Low Voltage Lighting Wire

Description: Thermoplastic jacketed parallel constructed service cord. Not for hard usage in accordance with NEC. 16 AWG through 12 AWG, -20°C to 60°C, 300 Volt rating

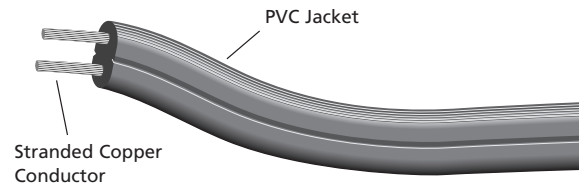
Applications: Outdoor low voltage lighting systems
(Note: #0357, #0358, #0348, #0349, #0304 and #0311 are suitable for direct burial.)

Conductor: Soft annealed stranded copper per ASTM B3-90

Insulation: PVC Class 43

Jacket: N/A

Industry Approvals: UL62, UL1581



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0188	SPT-3	12	2	65/30	0.095	N/A	.285 X .510	25A/300V	500'	spool	black	1	36.0	1.07	078693001888
WD-0311	SPT-3	12	2	65/30	0.095	N/A	.285 x .510	25A/300V	200'	ss pack	black	2	46.8	1.68	078693003110
WD-0304	SPT-3	12	2	65/30	0.095	N/A	.285 x .510	25A/300V	100'	ss pack	black	3	57.0	1.63	078693003042
WD-0339	SPT-3	14	2	41/30	0.080	N/A	.235 X .440	18A/300V	500'	spool	black	1	36.3	1.07	078693003394
WD-0349	SPT-3	14	2	41/30	0.080	N/A	.235 X .440	18A/300V	100'	ss pack	black	5	36.0	1.58	078693003493
WD-0348	SPT-3	14	2	41/30	0.080	N/A	.235 X .440	18A/300V	50'	ss pack	black	10	37.3	1.12	078693003486
WD-0338	SPT-3	16	2	26/30	0.060	N/A	.185 X .365	13A/300V	500'	spool	black	1	15.0	0.53	078693003387
WD-0358	SPT-3	16	2	26/30	0.060	N/A	.185 X .365	13A/300V	100'	ss pack	black	5	23.8	1.03	078693003585
WD-0357	SPT-3	16	2	26/30	0.060	N/A	.185 X .365	13A/300V	50'	ss pack	black	10	27.4	1.12	078693003578

Sprinkler Wire

Description: 18 AWG, 4 to 10 solid bare conductors, 75°C

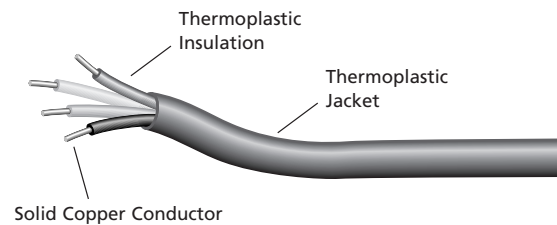
Applications: Sprinkler control systems

Conductor: Soft annealed solid copper per ASTM B3-90

Insulation: PVC

Jacket: PVC 75°C

Industry Approvals: UL



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0887	SPRINKLER WIRE	18	7	1/18	0.025	0.025	N/A	300V	250'	spool	green	1	23.2	0.53	078693008870
WD-0111	SPRINKLER WIRE	18	5	1/18	0.025	0.025	N/A	300V	250'	spool	green	1	11.0	0.52	078693001116
WD-0886	SPRINKLER WIRE	18	4	1/18	0.025	0.025	N/A	300V	250'	spool	green	1	13.8	0.53	078693008863

Round Service Cord Vinyl

Description: Thermoplastic insulated conductors and an overall thermoplastic jacket. For hard usage applications in accordance with NEC. 12 AWG through 16 AWG, -50°C to 60°C, 300 Volt rating

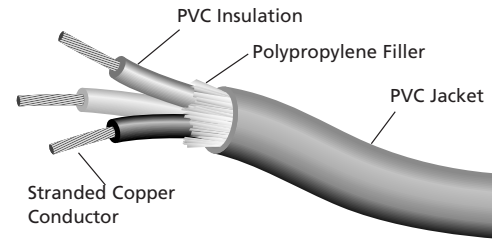
Applications: Portable tools and lights

Conductor: Soft annealed stranded copper

Insulation: PVC Class 43

Jacket: Weather resistant PVC Class 43

Industry Approvals: UL62, UL1581, CSA



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0738	SJTW	12	3	65/30	0.032	0.045	0.425	20A/300V	250'	spool	orange	1	34.0	1.07	078693007385
WD-0735	SJTW	14	3	41/30	0.035	0.045	0.380	15A/300V	250'	spool	orange	1	25.6	0.45	078693007354
WD-0733	SJTW	16	3	26/30	0.030	0.032	0.324	10A/300V	250'	spool	orange	1	17.9	0.53	078693007330
WD-0749	SJTW	16	3	26/30	0.030	0.032	0.324	10A/300V	250'	spool	white	1	18.0	0.53	078693007491
WD-0732	SJTW	16	2	26/30	0.030	0.032	0.305	13A/300V	250'	spool	orange	1	14.2	0.53	078693007323

Round Service Cord SVT

Description: Thermoplastic insulated conductors and overall thermoplastic jacket. For not hard usage applications in accordance with NEC. 18 AWG, 90°C, 300 Volt rating

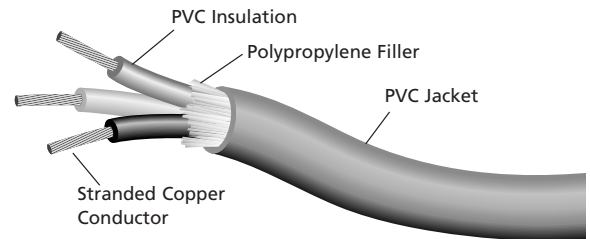
Applications: Vacuum cleaners, office equipment, food mixers

Conductor: Soft annealed stranded copper per ASTM B3-90

Insulation: PVC Class 43

Jacket: PVC Class 43

Industry Approvals: UL62, UL1581, CSA



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0131	SVT	18	3	41/34	0.030	0.030	0.302	7A/300V	250'	spool	white	1	18.0	0.52	078693001314
WD-0491	SVT	18	2	41/34	0.016	0.030	0.233	10A/300V	250'	spool	grey	1	8.6	0.53	078693004919
WD-0130	SVT	18	2	41/34	0.016	0.030	0.233	10A/300V	250'	spool	white	1	8.6	0.49	078693001307

Round Service Cord Yellow Jacket®

Description: Extremely flexible and abrasion resistant. Premier grade Thermoplastic insulation/jacket for hard usage applications in accordance with NEC. Water resistant. 10 AWG through 14 AWG, -50°C to 60°C, 300 Volt rating

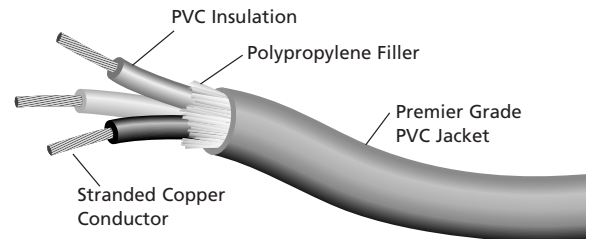
Applications: Portable tools and lamps, motors, lawn equipment

Conductor: Soft annealed stranded copper per ASTM B3-90

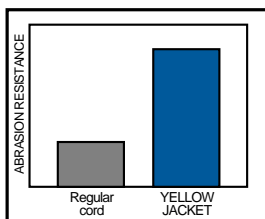
Insulation: PVC Class 43

Jacket: PVC Class 43, weather resistant, VW-1 flame rating

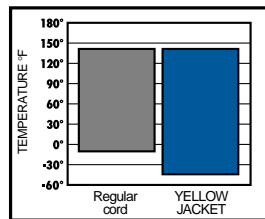
Industry Approvals: UL62, UL1581, CSA



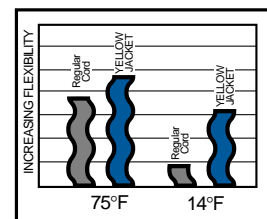
Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-2807	YELLOW JACKET SJTW	12	3	65/30	0.032	0.045	0.440	20A/300V	250'	spool	yellow	1	34.0	1.07	078693028076
WD-2808	YELLOW JACKET SJTW	14	3	41/30	0.035	0.035	0.355	15A/300V	250'	spool	yellow	1	12.2	0.53	078693028083



LONGER LIFE
Three times greater resistance to abrasion.



MORE WEATHER RESISTANT
Won't crack in cold to -58°F.
Won't deform in heat up to 140°F.



SUPERIOR FLEXIBILITY
30-50% more flexible than regular cords.

Round Service Cord Cold Flex

Description: For hard usage applications in accordance with NEC. 10 AWG through 18 AWG, -50°C to 105°C (TPE), -50°C to 60°C (PVC), 300 Volt rating

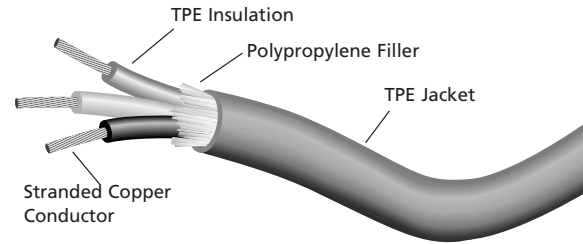
Applications: Portable tools and lamps, pumps, portable farm equipment

Conductor: Soft annealed stranded copper per ASTM B3-90

Insulation: TPE, PVC (#0772B, #0488B)

Jacket: TPE, PVC (#0772B, #0488B)

Industry Approvals: UL 62, UL1581, CSA



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0775	SJEW RUBBER	10	3	104/30	0.045	0.070	0.600	25A/300V	250'	spool	black	1	51.3	1.36	078693007750
WD-0779	SJEW RUBBER	10	3	104/30	0.045	0.070	0.600	25A/300V	100'	spool	black	1	21.3	0.53	078693007798
WD-0774	SJEW RUBBER	12	3	65/30	0.032	0.045	0.440	20A/300V	250'	spool	black	1	29.1	1.07	078693007743
WD-0772	SJEW RUBBER	14	3	41/30	0.035	0.035	0.355	15A/300V	250'	spool	black	1	19.0	0.47	078693007729
WD-0771	SJEW RUBBER	14	2	41/30	0.035	0.040	0.340	18A/300V	250'	spool	black	1	14.9	0.53	078693007712
WD-0488	SJEW RUBBER	16	3	26/30	0.030	0.032	0.324	10A/300V	250'	spool	black	1	6.0	0.47	078693004889
WD-0487	SJEW RUBBER	16	2	26/30	0.030	0.032	0.305	13A/300V	250'	spool	black	1	12.0	0.38	078693004872
WD-0486	SJEW RUBBER	18	3	16/30	0.030	0.035	0.302	7A/300V	250'	spool	black	1	9.8	0.38	078693004865
WD-0485	SJEW RUBBER	18	2	16/30	0.030	0.035	0.285	10A/300V	250'	spool	black	1	9.1	0.38	078693004858

Round Service Cord Oil Resistant – TPE rubber

Description: Extra hard usage per NEC. Resists most acids. 10 AWG through 18 AWG, 60°C to 105°C

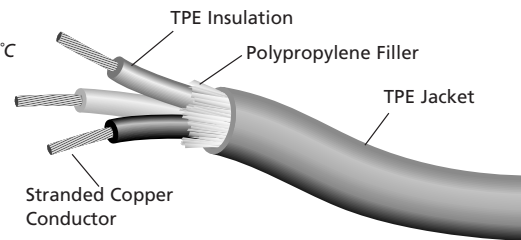
Applications: Garages, portable tools and lights, battery chargers, weather resistant for outdoor applications, dish washers, refrigerators, 3-phase equipment (4 conductor)

Conductor: Soft annealed stranded copper per ASTM B3-90

Insulation: TPE Class 36, Rubber

Jacket: TPE Weather Resistant Class 36, Rubber

Industry Approvals: UL62, UL1581, CSA



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-2853	SJ RUBBER	10	3	104/30	0.045	0.060	0.565	25A/300V	100'	spool	black	1	26.8	0.52	078693028533
WD-2854	SJ RUBBER	12	3	65/30	0.030	0.045	0.425	20A/300V	250'	spool	black	1	37.0	0.70	078693028540
WD-2856	SJ RUBBER	14	3	41/30	0.030	0.030	0.360	15A/300V	250'	spool	black	1	27.0	1.17	078693028564
WD-2855	SJ RUBBER	14	2	41/30	0.030	0.030	0.335	18A/300V	250'	spool	black	1	14.9	0.49	078693028557
WD-2857	SJ RUBBER	16	2	26/30	0.030	0.030	0.305	13A/300V	250'	spool	black	1	16.0	0.38	078693028571
WD-2860	SJ RUBBER	18	3	16/30	0.030	0.030	0.300	7A/300V	250'	spool	black	1	16.0	0.38	078693028601
WD-2859	SJ RUBBER	18	2	16/30	0.030	0.030	0.280	10A/300V	250'	spool	black	1	13.8	0.38	078693028595
WD-0185	SJEOW TPE	10	4	104/30	0.045	0.070	0.640	25A/300V	250'	spool	yellow	1	73.2	2.83	078693001857
WD-0882	SJEOW TPE	10	3	104/30	0.045	0.060	0.565	25A/300V	250'	spool	yellow	1	55.4	1.07	078693008825
WD-0184	SJEOW TPE	12	4	65/30	0.032	0.045	0.475	20A/300V	250'	spool	yellow	1	45.0	3.00	078693001840
WD-0884	SJEOW TPE	12	3	65/30	0.030	0.045	0.425	20A/300V	250'	spool	yellow	1	30.0	1.07	078693008849
WD-0883	SJEOW TPE	12	2	65/30	0.030	0.045	0.405	25A/300V	250'	spool	yellow	1	22.0	1.07	078693008832
WD-0177	SJEOW TPE	14	4	41/30	0.035	0.040	0.450	15A/300V	250'	spool	yellow	1	100.0	2.75	078693001772
WD-0885	SJEOW TPE	14	3	41/30	0.030	0.030	0.360	15A/300V	250'	spool	yellow	1	21.0	0.53	078693008856
WD-0187	SEOW TPE	10	4	104/30	0.045	0.100	0.765	25A/600V	200'	spool	black	1	51.0	3.00	078693001871
WD-0164	SEOW TPE	10	3	104/30	0.045	0.105	0.680	25A/600V	250'	spool	black	1	70.6	2.82	078693001642
WD-0186	SEOW TPE	12	4	65/30	0.048	0.105	0.695	20A/600V	250'	spool	black	1	30.0	3.00	078693001864
WD-0157	SEOW TPE	12	3	65/30	0.048	0.105	0.600	20A/600V	250'	spool	black	1	48.2	1.07	078693001574
WD-0150	SEOW TPE	14	3	41/30	0.045	0.080	0.530	15A/600V	250'	spool	black	1	19.0	1.07	078693001505

BULK WIRE – HOME ENTERTAINMENT

Speaker Wire

Description: Parallel wire, power limited circuit cable, 24 AWG through 12 AWG stranded copper wire, -20°C to 105°C

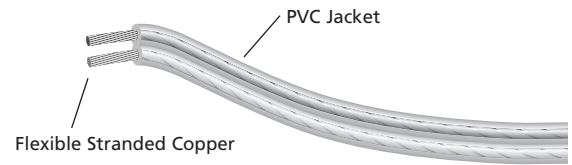
Applications: Stereo and hi-fi systems, home theater sound systems, lamps, radios

Conductor: Soft annealed copper per ASTM B3-90

Insulation: PVC Class 43

Jacket: N/A

Industry Approvals: UL Type CL2, UL1581, UL13, UL62



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0180	TYPE CL2	12	2	65/30	0.028	N/A	.150 x .305	300V	250'	spool	clear	2	30.0	0.38	078693001802
WD-0181	TYPE CL2	14	2	41/30	0.028	N/A	.130 x .260	300V	250'	spool	clear	2	33.3	0.27	078693001819
WD-0182	TYPE CL2	16	2	26/30	0.028	N/A	.115 x .225	300V	250'	spool	clear	2	38.5	0.27	078693001826
WD-0332	TYPE CL2	16	2	26/30	0.020	N/A	.115 x .225	300V	100'	ss pack	clear	6	13.0	0.56	078693003325
WD-0331	TYPE CL2	16	2	26/30	0.020	N/A	.115 x .225	300V	50'	ss pack	clear	12	19.0	0.53	078693003318
WD-0783	TYPE CL2	18	2	16/30	0.020	N/A	.100 x .190	300V	250'	spool	clear	2	10.0	0.27	078693007835
WD-0804	TYPE CL2	18	2	16/30	0.020	N/A	.100 x .190	300V	25'	ss pack	clear	12	6.0	0.26	078693008047
WD-0782	TYPE CL2	24	2	7/32	0.020	N/A	.080 x .160	300V	1000'	spool	clear	2	10.0	0.38	078693007828
WD-0784	TYPE CL2	24	2	7/32	0.020	N/A	.080 x .160	300V	500'	spool	clear	2	10.0	0.27	078693019166
WD-0781	TYPE CL2	24	2	7/32	0.020	N/A	.080 x .160	300V	100'	ss pack	clear	12	5.7	0.53	078693007811
WD-0780	TYPE CL2	24	2	7/32	0.020	N/A	.080 x .160	300V	50'	ss pack	clear	12	3.3	0.27	078693007804

Gizmo™ Speaker Wire

Description: Low capacitance, Type CL2 (commercial), UL VW-1 Flame Test, 12 AWG through 16 AWG stranded copper, -20°C to 60°C, 300 Volt rating

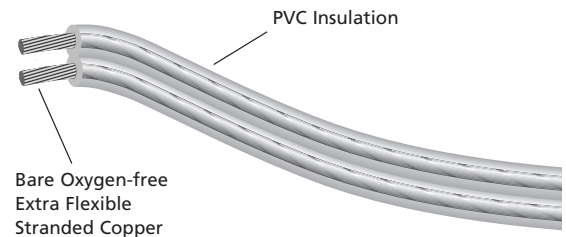
Applications: Premium sound systems, stereo and home theater systems

Conductor: Bare oxygen-free copper, extra flexible

Insulation: PVC, extra flexible

Jacket: N/A

Industry Approvals: UL, NEC Article 725 Type CL2 Class 2



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-5838	CL2 OFC	12	2	259/36	0.055	N/A	.205 x .415	300V	500'	spool	clear	1	38.0	0.97	078693058387
WD-5829	CL2 OFC	12	2	259/36	0.055	N/A	.205 x .415	300V	100'	spool	clear	2	15.0	0.34	078693058295
WD-5828	CL2 OFC	12	2	259/36	0.055	N/A	.205 x .415	300V	50'	spool	clear	4	15.0	0.37	078693058288
WD-5837	CL2 OFC	14	2	168/36	0.045	N/A	.170 x .350	300V	500'	spool	clear	1	25.9	0.60	078693058370
WD-5827	CL2 OFC	14	2	168/36	0.045	N/A	.170 x .350	300V	100'	spool	clear	2	10.5	0.23	078693058271
WD-5826	CL2 OFC	14	2	168/36	0.045	N/A	.170 x .350	300V	50'	spool	clear	4	11.5	0.29	078693058264
WD-5825	CL2 OFC	16	2	105/36	0.040	N/A	.145 x .295	300V	100'	spool	clear	4	14.3	0.29	078693058257
WD-5824	CL2 OFC	16	2	105/36	0.040	N/A	.145 x .295	300V	50'	spool	clear	10	17.5	0.32	078693058247

Gizzmo™ Speaker Wire In-Wall

Description: Multi-conductor, power limited circuit cable (#5832), Audio/Control & Instrumentation cables (#5835), 16 AWG stranded copper, 80°C (#5835), 105°C (#5832), 300 Volt rating

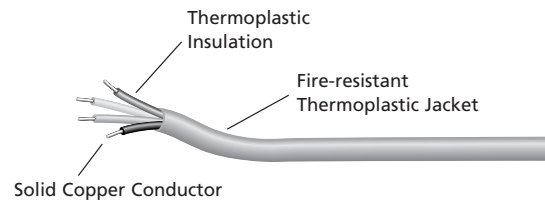
Applications: Intercom systems, speakers, public address systems, volume controls, remote control circuits (#5835), Class 2 & 3 circuits-wet/dry locations (#5832)

Conductor: Tinned copper

Insulation: PVC

Jacket: Flame retardant PVC

Industry Approvals: UL1581, NEC Article 725 Class 2 & 3 Power Limited Circuits (#5832), UL444 Type CM, MP & UL2464 (#5835), UL13



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-5832	CL3	16	4	19/29	0.015	0.030	0.271	300V	500'	po box	pink	1	28.6	0.73	078693058325
WD-5835	CL3	16	2	19/29	0.010	0.030	0.219	300V	500'	po box	purple	1	15.4	0.63	078693058356

TVIFM Antenna Hookup

Description: Twin Lead TV hook-up wire with Thermoplastic insulation, 20 AWG through 22 AWG, 300 Ohm

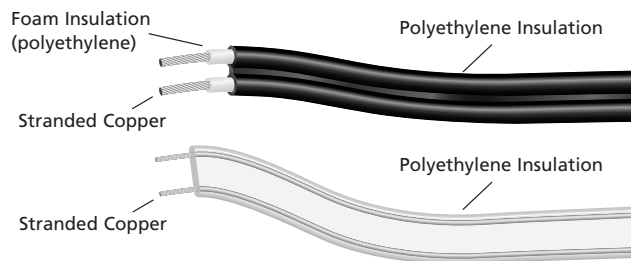
Applications: Connecting antennas to color and B/W televisions with UHF, VHF, and FM signals

Conductor: Soft annealed stranded copper per ASTM B3-90

Insulation: Weather and UV resistant polyethylene, foamed x-tra insulation around each conductor for signal enhancement (#0342, #0364, #0365)

Jacket: N/A

Industry Approvals: None



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0342	FOAM TWIN LEAD	20	2	7/28	0.028	0.025	.153 x .400	N/A	500'	spool	black	1	9.4	0.38	078693003424
WD-0340	FLAT TWIN LEAD	22	2	7/30	N/A	0.025	.076 x .395	N/A	500'	spool	brown	1	8.5	0.49	078693003400
WD-0341	FLAT TWIN LEAD	22	2	7/30	N/A	0.025	.076 x .395	N/A	500'	spool	clear	1	6.9	0.53	078693003417
WD-0360	FLAT TWIN LEAD	22	2	7/30	N/A	0.025	.076 x .395	N/A	50'	ss pack	brown	10	7.8	1.35	078693003608

Coaxial Cable

Description: 18 AWG through 22 AWG single conductor, 75 Ohm

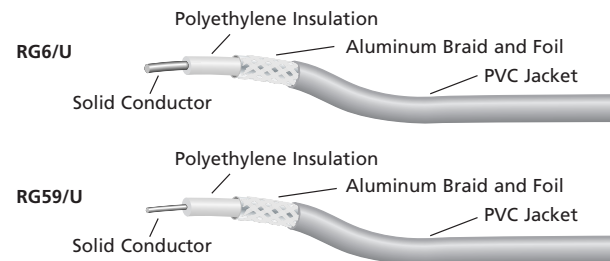
Applications: CATV, MATV, Class 2 circuits internal wiring, local area networks, RF signal transmission

Conductor: Solid bare copper-covered steel

Insulation: Foamed polyethylene

Jacket: PVC

Industry Approvals: UL Type CL2/CATV, UL Style 1354 (Note: #0344 and #0344W are not UL listed)



RG6/U COAX

Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0351	100% FOIL, 60% ALUM BRAID	18	1	1/18	0.070	0.045	0.270	N/A	500'	spool	black	1	17.0	0.54	078693003516
WD-0351W	100% FOIL, 60% ALUM BRAID	18	1	1/18	0.070	0.045	0.270	N/A	500'	spool	white	1	17.0	0.50	078693013517
WD-0315	QUAD SHIELD, 100% FOIL, 60% ALUM BRAID + 100% FOIL, 60% ALUM BRAID	18	1	1/18	0.070	0.057	0.295	N/A	500'	spool	black	1	19.4	0.63	078693003158
WD-0390	100% FOIL, 92% ALUM BRAID	18	1	1/18	0.070	0.045	0.270	N/A	500'	spool	black	1	17.8	0.54	078693003905

RG59/U COAX

Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0354	100% FOIL, 40% ALUM BRAID	22	1	1/22	0.060	0.047	0.240	N/A	500'	spool	black	1	13.6	0.50	078693003547
WD-0355	100% FOIL, 40% ALUM BRAID	22	1	1/22	0.060	0.047	0.240	N/A	500'	spool	white	1	13.1	0.50	078693003554
WD-0344	RG59/U	22	1	1/22	0.060	0.044	0.235	N/A	500'	spool	black	1	11.6	0.46	078693003448
WD-0344W	RG59/U	22	1	1/22	0.060	0.044	0.235	N/A	500'	spool	white	1	15.0	0.53	078693013447

BULK WIRE – HOME COMMUNICATIONS

Telephone Wire Base Cord

Description: Thermoplastic insulated 4-conductor telephone hook-up cable, 60°C

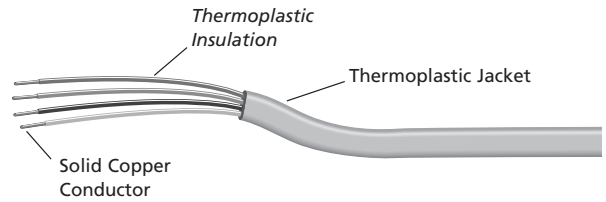
Applications: Hookup from wall jack to telephone, answering machines, etc., handset connection

Conductor: Soft annealed stranded copper per ASTM B3-90

Insulation: PVC

Jacket: N/A

Industry Approvals: UL (#0932, #0932W)



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0932	BASE CORD	26	4	6/38	0.015	N/A	.097 x .193	N/A	500'	spool	almond	1	6.4	0.20	078693009327
WD-0932W	BASE CORD	26	4	6/38	0.015	N/A	.097 x .193	N/A	500'	spool	white	1	6.2	0.21	078693019320
WD-0930	BASE CORD	26	4	6/38	0.015	N/A	.097 x .193	N/A	50'	spool	almond	6	3.9	0.22	078693009303

Telephone Station Wire Single Phone Lines

Description: Thermoplastic insulated general purpose communication wire, single line telephone station wire. 24 AWG

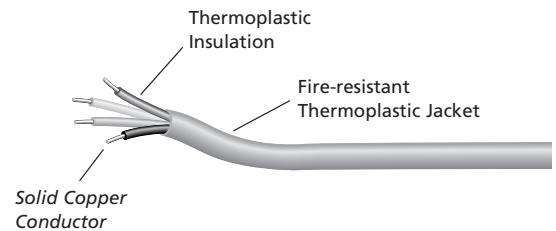
Applications: In-wall installations (#0345), single line telephone systems, intercoms Not recommended for riser or plenum applications

Conductor: Soft annealed solid copper per ASTM B3-90

Insulation: Thermoplastic

Jacket: Fire-resistant PVC

Industry Approvals: UL Type CM Station Wire, NEC Article 725 Type CM



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0345	PHONE WIRE	24	4	1/24	0.015	0.0235	N/A	300V	500'	spool	beige	1	8.4	0.21	078693003455
WD-0347	PHONE WIRE	24	4	1/24	0.015	0.0235	N/A	300V	100'	ss pack	beige	10	16.6	1.12	078693003479
WD-0346	PHONE WIRE	24	4	1/24	0.015	0.0235	N/A	300V	50'	ss pack	beige	6	3.8	0.22	078693003462

Direct Burial Telephone Multi-Line Wire

Description: 6-conductor (3-pair) direct burial telephone cable. 22 AWG, 60°C, 300 Volt rating

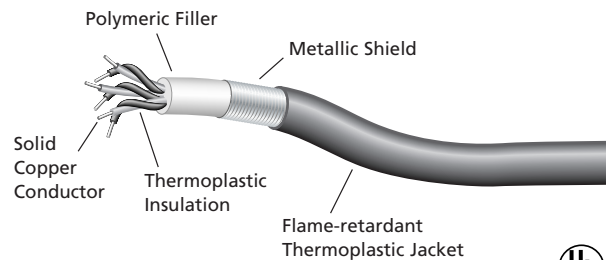
Applications: Audio and communications, suitable for direct burial, outdoor uses where total isolation of signal is required

Conductor: Soft annealed solid copper wire per ASTM B3-90

Insulation: Thermoplastic

Jacket: Flame-retardant thermoplastic

Industry Approvals: UL/Bellcore



Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0353	3-PAIR	22	6	1/22	.016	.036	.350	300V	250'	spool	beige	1	18.0	0.53	078693003530

Voice/Data Multi-Line Wire

Description: Twisted pair (3 pair to 6 pair). 24 AWG, 60°C, 150°C (#2989), 300 Volt rating

Applications: Communication network hookup, multi-line telephone hookup, fax machines

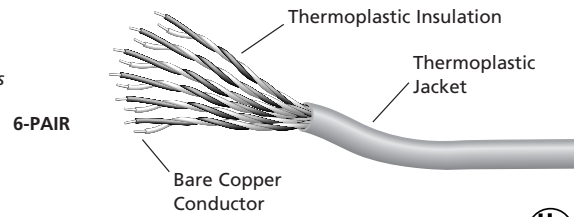
Conductor: 24 AWG bare copper

Insulation: Semirigid PVC

Jacket: PVC-low smoke

Industry Approvals: UL Listed type CM/MP or CMR/MPR

(except #2989), 60°C 300 Volt, UL444 ICEA S-80-576, EIA/TIA 568, NEC Article 800



CATEGORY 3 COMPLIANT - SPEC

Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-0352	6-PAIR	24	12	1/24	0.006	0.015	0.015	300V	500'	spool	beige	1	13.8	0.49	078693003523
WD-2986	3-PAIR	24	6	1/24	0.006	0.015	0.015	300V	1000'	po box	beige	1	14.0	0.70	078693029868
WD-0894	3-PAIR	24	6	1/24	0.006	0.015	0.015	300V	500'	spool	beige	1	7.4	0.21	078693008948

CATEGORY 3 - SPEC

Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-2988	PVC 4-PAIR	24	8	1/24	0.006	0.015	0.170	300V	1000'	po box	beige	1	20.0	0.81	078693029882
WD-82961	PVC 4-PAIR	24	8	1/24	0.006	0.015	0.170	300V	100'	ss pack	beige	6	10.0	0.58	078693029615
WD-82960	PVC 4-PAIR	24	8	1/24	0.006	0.015	0.170	300V	50'	ss pack	beige	10	10.0	0.58	078693029608

CATEGORY 5 - SPEC

Cat No.	Description	AWG	Cond	Strand	Nom Insul	Nom Jckt	Nom O.D.	Amp Cap	Length	Pkg	Std Color	Std Pack	Wt	Cube	UPC
WD-5839	4-PAIR	24	8	1/24	0.008	0.024	0.205	300V	1000'	po box	blue	1	tbd	tbd	078693058394

Category 3: Unshielded twisted pair with at least 4 pairs that can support voice and data networks up to 16MHz.

Category 5: Unshielded twisted pair with at least 4 pairs that can support voice and data networks up to 100MHz.

GLOSSARY

AMPERES OR AMPS

The unit of current. One ampere is the current flowing through one ohm of resistance at one volt potential.

ALTERNATING CURRENT

Electric current that continually reverses its polarity. It is expressed in hertz or Hz.

ATTENUATION

Power loss in an electrical system. Applied to coaxial cables, the power drop or signal loss in a circuit, expressed in decibels, db. It is also the decrease in amplitude of a wave with distance in the direction of the wave propagation when the amplitude at any given place is constant in time or the decrease in amplitude with time at a given place. Attenuation is generally expressed in db per unit, usually 100 ft., and is indicative of the power loss.

AWG

Abbreviation for American Wire Gauge.

AWM

Designation for Appliance Wiring Material.

BARE CONDUCTOR

A conductor not covered with insulation.

BRAID

Woven bare metallic or tinned copper wire used as shielding for wires and cables and as ground wire for batteries or heavy industrial equipment. Also a woven fibrous protective outer covering over a conductor or cable.

BURIED CABLE

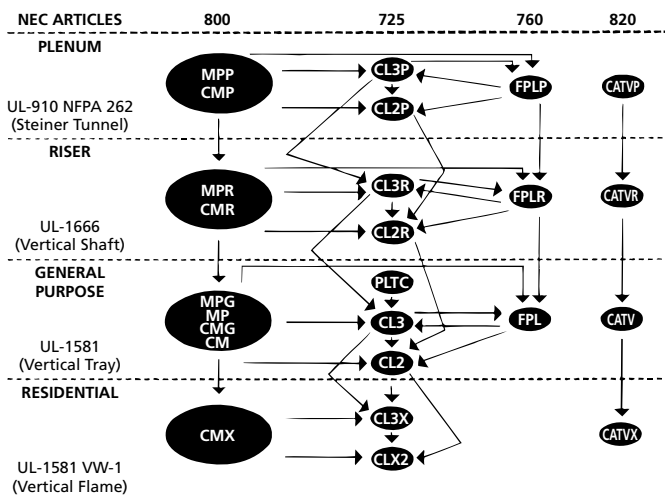
A cable installed directly in the earth without use of underground conduit. Also called "direct burial cable".

CABLE

An insulated conductor, or group of individually insulated conductors in twisted or parallel configuration.

CABLE SUBSTITUTION CHART PER NEC

All UL rated wire.



→ Cables indicated can be substituted.

- Types: MPP, MPR, MPG, MP = Multipurpose Cables
- Types: CMP, CMR, CMG, CM, CMX = Communication Cables
- Types: CL3P, CL3R, CL3, CL3X, CL2P, CL2R, CL2, CL2X = Class 2 and Class 3 Remote Control, Signaling, and Power Limited Cables
- Types: FPLP, FPLR, FPL = Power Limited Fire Alarm Cables
- Types: CATVP, CATVR, CATV, CATVX = Community Antenna Television and Radio Distribution Cables
- Types: PLTC = Power Limited Tray Cables

CATV

Acronym for community antenna television.

CAPACITANCE (CAPACITY).

That property of a system of conductors and dielectrics which permits the storage of electricity when potential difference exists between the conductors. Its value is expressed as the ratio of a quantity of electricity to a potential difference. A capacitance value is always positive. The alternating current phenomena associated with electrical capacitance is important in wire and cable. At most commercial voltages and frequencies used in power distribution, the capacitance effects are negligible. At relatively high voltages, the current due to capacitance may reach sufficient value to effect the circuit, and insulation for such applications is designed for moderately low dielectric constant. In communication work, the capacitance effect is pronounced and of great importance. Among other effects, the capacitance of the wire determines the maximum length of the line over which the signal may be transmitted without excessive attenuation. It is important that insulations are designed with low dielectric constant in the communication field.

CCTV

Acronym for closed-circuit television.

CIRCUIT

A complete path over which electrons can flow from the negative terminals of a voltage source through parts and wires to the positive terminals of the same voltage source.

CL2

A UL Listed Class 2 power-limited type cable for general use applications. NEC Article 725; cable passes a 70,000 BTU flame test.

CL2P

A UL Listed Class 2 power-limited cable which is suitable for use in plenums in accordance with NEC Article 725. The cable meets the requirements of UL 910, the Steiner Tunnel test which classifies fire and smoke characteristics.

CL2R

A UL Listed Class 2 power-limited cable which is suitable for use in riser shafts between floors in accordance with NEC Article 725. These cables meet the UL 1066 flame test.

CM

A UL Listed general application communications cable in accordance with NEC Article 800. Meets the 70,000 BTU flame test.

CMR

A UL Listed communications cable that is suitable for use in plenums in accordance with NEC Article 800, UL 910 and Steiner Tunnel test.

CMR

A UL Listed communications cable which is suitable for use in riser shafts between floors in accordance with NEC Article 800.

COAXIAL CABLE

A cable consisting of two cylindrical conductors with a common axis separated by a dielectric.

COLOR CODES

14-624-Series & 14-622-Series

Pair Number	Tip		Ring	
	Insulation Color	Band Color	Insulation Color	Band Color
1	White	Blue	Blue	White
2	White	Orange	Orange	White
3	White	Green	Green	White
4	White	Brown	Brown	White
5	White	Slate	Slate	White
6	Red	Blue	Blue	Red

COLOR CODE FOR TELEPHONE WIRE

4C = Black, Red, Green, Yellow

6C = White, Black, Red, Green, Yellow, Blue

8C = White, Brown, Yellow, Green, Red, Black, Orange, Blue

CONDUCTANCE

The measured ability of a conductor that allows electrons to flow. The ratio of the current flow to the potential difference causing the flow. The reciprocal of the resistance.

CONDUCTIVITY

The capability of a material to carry electrical current usually expressed as a percentage of copper conductivity (copper being 100%).

CONDUCTOR

An uninsulated or insulated wire suitable to carry electrical current.

CONDUCTOR RESISTANCE

The resistance to flow of the electrical current along a conductor. Expressed in ohms/1000 feet. (Usually referenced to 20°C).

COPPER-COVERED STEEL WIRE

A wire having a steel core to which is fused an outer shell of copper.

CROSSTALK

Signal interference between nearby conductors caused by pickup of stray energy.

CSA

Abbreviation for Canadian Standards Association, a non-profit, independent organization which operates a listing service for electrical and electronic materials and equipment. The Canadian counterpart of the Underwriters Laboratories.

CURRENT

A movement or flow of electrons. Also the measure of this flow, expressed in amperes.

CURRENT CARRYING CAPACITY

The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations.

CURRENT RATING

The maximum continuous electrical flow of current for which a device is designed to conduct for a specified time at a specified operation temperature. Usually expressed in amperes.

DB LOSS

The loss of a signal in a conductor expressed in decibels.

DC (DIRECT CURRENT)

An electric current which flows in only one direction.

DIELECTRIC

1) Any insulating medium which intervenes between two conductors and permits electrostatic attraction and repulsion to take place across it. 2) A material having the property that energy required to establish an electric field is recoverable in whole or in part, as electric energy.

DIELECTRIC STRENGTH

The voltage which an insulation can withstand before breakdown occurs. Usually expressed as a voltage gradient (such as volts per mil).

DRAIN WIRE

In a cable, the uninsulated wire laid over the component or components and used as a ground connection.

ECCENTRICITY

Like concentricity, a measure of the center of a conductor's location with respect to the circular cross section of the insulation. Expressed as a percentage of displacement of one circle within the center.

FF-1

Fixture wire, flexible, rubber insulated, single conductor, 300V, 60(C).

FF-2

Same as FF-1 with 600V rating.

FLAT BRAID

A braid shield composed of flat strands.

FLAT CABLE

A cable with two smooth or corrugated but essentially flat surfaces.

FLAT CONDUCTOR

A wire having a rectangular cross section as opposed to round or square conductors.

FLAT CONDUCTOR CABLE

A cable with a plurality of flat conductors.

FLAME RESISTANCE

The ability of a material not to propagate flame once the heat source is removed.

FPL

Power Limited Fire Protection; general use, NEC 760, UL Subject 1424.

FPLP

Plenum rated Power Limited Fire Protection; NEC 760, UL Subject 1424.

FPLR

For use between floors (Riser) Power Limited Fire Protection; NEC 760, UL Subject 1424.

GAUGE

A term used to denote the physical size of a wire.

HERTZ (HZ)

A term replacing cycles per-second as an indication of frequency.

HOOK-UP WIRE

A wire used for low current, low voltage (under 1000 volts) applications within enclosed electronic equipment.

IMPEDANCE

The total opposition that a circuit offers to the flow of alternating current or any other varying current at a particular frequency. It is a combination of resistance *R* and reactance *X*, measured in ohms.

INSULATION RESISTANCE

The ratio of the applied voltage to the total current between two electrodes in contact with a specific insulation, usually expressed in megohms-*M* feet.

JACKET

An outer non-metallic protective covering applied over an insulated wire or cable.

LIFE CYCLE

A test to determine the length of time before failure in a controlled, usually accelerated, environment.

LINE CORD

A two wire cord terminated in a two-prong plug at one end used to connect equipment or appliance to a power outlet.

LOCAL AREA NETWORK (LAN)

A baseband or broadband interactive bi-directional communication system for information exchange on a common transmission line.

MAGNET WIRE

Insulated wire intended for use in windings on a motor, transformer, and other coils for electro-magnetic devices.

NEC (NATIONAL ELECTRIC CODE)

A set of regulations governing construction and installation of electrical wiring etc.

NEC ARTICLE 725

Covers remote control, signal and communication power limited circuits that are not an integral part of the device or appliance.

NEC ARTICLE 760

Covers the fire and burglar alarms installation of wire and equipment operating at 600V or less.

NEC ARTICLE 800

Covers telephone, telegraph as well as outside wiring for fire and burglar alarms.

OD (OVERALL DIAMETER)

Finished diameter over wire or cable.

OHM

A unit of electrical resistance equal to that of a conductor in which a current of one ampere is produced by a potential of 1 volt across its terminals.

PLENUM CABLE

Cable approved by a recognized agency such as UL for installation in plenums without the need for conduit.

POLYETHYLENE

A thermoplastic material with excellent electrical properties.

PVC (POLYVINYL CHLORIDE)

A polymer compound used as wire insulation.

QUAD

A four conductor cable or four shields in a cable.

RATED TEMPERATURE

The maximum temperature at which an electric component can operate for extended periods without loss of its basic properties.

RATED VOLTAGE

The maximum voltage at which an electric component can operate for extended periods without undue degradation or safety hazard.

RESISTANCE

A measure of the difficulty in moving electrical current through a medium when voltage is applied. It is measured in ohms.

RESISTIVITY

The ability of a material to resist passage of electrical current either through its bulk or on a surface. The unit of volume of resistivity is the ohm-millimeter/meter @ 60(F) of surface resistivity.

RG/U

"RG" is the military designation for coaxial, and "U" stands for general utility.

ROPE LAY

A conductor composed of a central core surrounded by one or more layers of helically laid groups of wires.

SHIELD

In cables, a metallic layer placed around a conductor or group of conductors to prevent electrostatic or electromagnetic interference between the enclosed wires and external fields.

STRAND

A single uninsulated wire (a unit of a conductor).

STRANDED CONDUCTOR

A conductor composed of groups of wires twisted together.

TC

Tinned copper. (also TDCU)

TEMPERATURE RATING

The maximum temperature at which an insulating material may be used in continuous operation without loss of its basic properties.

TENSILE STRENGTH

The pull stress required to break a given specimen.

TRACER STRIPE

When more than one color coding stripe is required, the first, or widest, stripe is the base stripe; the other, usually narrower stripes, being termed tracer stripes.

TWIN LINE

A type of transmission line which has a solid insulating material, in which the two conductors are placed in parallel to each other and whose impedance is determined by the diameter and spacing of the conductors and the insulating material. Also known as twin lead.

TWISTED PAIR

A cable composed of two small insulated conductors, twisted together without a common covering.

UL

Abbreviation for Underwriters Laboratories, a nonprofit, independent organization, which operates a listing service for electrical and electronic materials and equipment.

VELOCITY OF PROPAGATION

The speed of an electrical signal down a length of cable compared to speed in free space expressed as a percent. It is the reciprocal of the square root of the dielectric constant of the cable insulation.

VOLTAGE

The term most often used in place of electromotive force, potential, potential difference, or voltage drop to designate the electric pressure that exists between two points and is capable of producing a current when a closed circuit is connected between two points.

VOLTAGE RATING

The highest voltage that may be continuously applied to a conformance with standards or specifications.

VW-1

A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test.

WATT

Unit of power or work done at rate of one joule per second or rate of work represented by current of one ampere under a pressure of one volt (volt-ampere).

WAVE LENGTH

The distance, measure in the direction of propagation, of a repetitive electrical pulse or waveform between two successive points that are characterized by the same phase of vibration.

WICKING

The longitudinal flow of a liquid in a wire or cable due to capillary action.

WIRE

A conductor, either bare or insulated.