



Product: <u>8112</u> ☑

RS-232/422 Low Cap, #24-12.5pr, FPO, O/A Foil+Braid, PVC Jkt, CMG, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® + tinned copper braid shield (65% coverage), tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	rs-232 extended distance applications; rs-422 applications; computer communications; low voltage analog signals (4-20ma, 0-10v,); low voltage digital control (24v,); line
	level audio; panel wiring

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	12	24 AWG	7x32	TC - Tinned Copper
Conductor(s)	1	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.013 in (0.33 mm)	0.049 in (1.2 mm)	Western Electric Standard
Conductor(s)	PE - Polyethylene (Foam)	0.013 in (0.33 mm)	0.049 in (1.2 mm)	Gray

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	65%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.035 in (0.89 mm	0.440 in (11.2 mm)
Overall Cable Diameter (Nominal):	0.440 in (11	l.2 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft	12.5 pF/ft (41.0 pF/m)	22 pF/ft (72 pF/m)	100 Ohm	78%	1.1 Amps per Conductor at 25°C
Conductor(s)	24 Ohm/1000ft (79 Ohm/km)					

Voltage

UL Voltage Rating
300 V (CM), 30 V (UL AWM 2919)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-30°C to +80°C

Bend Radius

Stationary Min.	Installation Min.	
4.4 in (110 mm)	4.4 in (110 mm)	

Max. Pull Tension:	124 lbs (56.2 kg)
Bulk Cable Weight:	92 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor	
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEC 60332-1-2	
CPR Compliance:	CPR Euroclass: Eca	
NEC / UL Compliance:	Article 800, CM	
AWM Compliance:	NWM 2919	
CEC / C(UL) Compliance:	СМ	
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)	
UK Regulation Compliance:	UKCA Mark	
APAC Compliance:	China RoHS II (GB/T 26572-2011)	
Plenum Number:	88112	

Product Notes

Notes:	Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.
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History

Update and Revision:

Part Numbers

Variants

	ltem #	Color	Putup Type	Length	UPC
	8112 060100	Chrome	Reel	100 ft	612825195078
	8112 060500	Chrome	Reel	500 ft	612825195092
	8112 0601000	Chrome	Reel	1,000 ft	612825195085

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