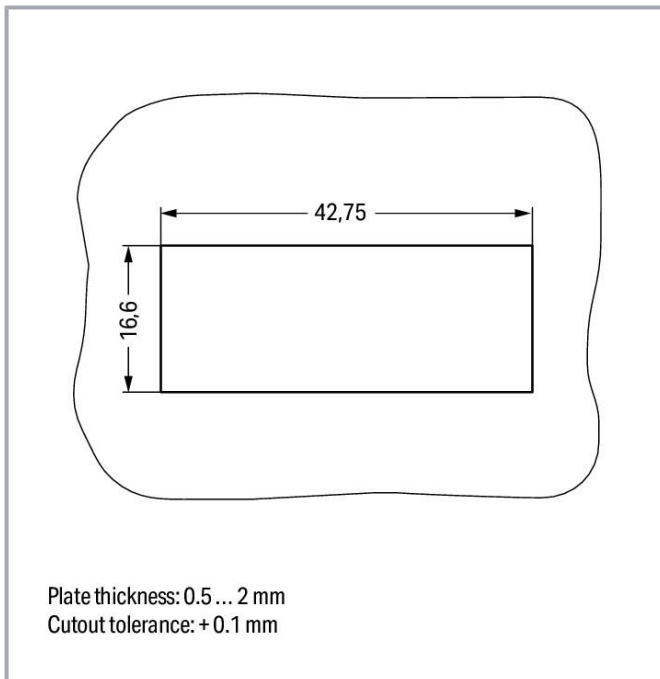
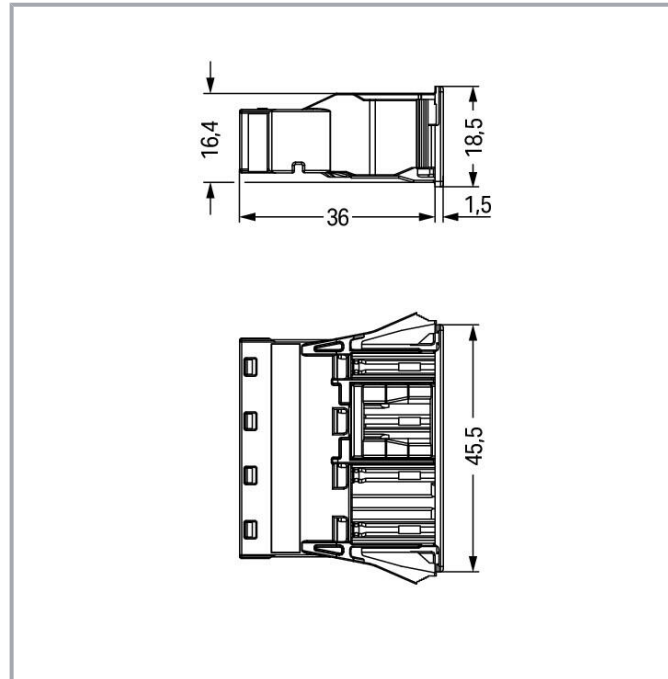
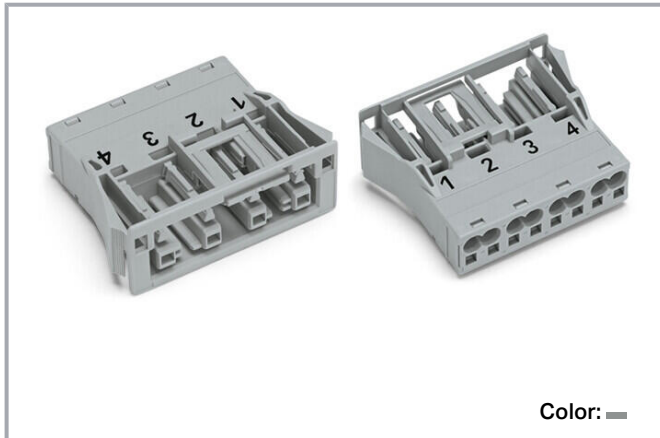


Data sheet | Item number: 770-744

Snap-in socket; 4-pole; Cod. B; 4,00 mm²; gray

www.wago.com/770-744



Subject to changes. Please also observe the further product documentation!

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Item description

Female connector/socket WINSTA® MIDI with protection against mismating

The WINSTA® MIDI female connector/socket with locking latch is the pluggable solution for your use in control cabinets, for lighting connections or on PCBs. The pluggable installation connectors with spring pressure connection technology work without screw connections. They allow flexible, error-free installation in numerous possible uses. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. The pluggable installation connector offers touch-proof protection with live components in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). Solutions like the WINSTA® MIDI pluggable installation connectors with B coding are suitable for applications involving process control, for example, for lighting or within data networks. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in a broad range of individual products you can use for quick, easy, flexible, and secure electrical installation.

Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MIDI

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Now you can also lower installation costs without compromising quality and safety: The WINSTA® MIDI pluggable installation connector with marking eliminates the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismating
- simple circuits
- with B coding for controllers, for example lighting fixtures and sun blinds
- custom-engineered solutions
- convenient installation and commissioning

Data

Notes

Variants:

Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Electrical data

Ratings per IEC/EN

Ratings per

IEC/EN 60664-1

Subject to changes. Please also observe the further product documentation!

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| | |
|-------------------------------|---|
| Nominal voltage (III/3) | 400 V |
| Rated impulse voltage (III/3) | 6 kV |
| Rated current | 25 A |
| Note (rated current) | 25 A for 3-pole load 20 A for 4-pole load |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

Ratings per UL 1977

| | |
|-------------------------|--|
| Note for the US market | Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 16 A and voltages up to 600 V. For further information, please contact your local sales office. |
| Rated voltage (UL 1977) | 600 V |
| Rated current UL 1977 | 23 A |

General

| | |
|----------------------------|--|
| Note on contact resistance | approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket |
|----------------------------|--|

Connection data

| | |
|----------------------------|---|
| Connection points | 8 |
| Total number of potentials | 4 |

Connection 1

| | |
|--|--|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross-section | 4 mm ² / 12 AWG |
| Solid conductor | 0.5 ... 4 mm ² / 20 ... 12 AWG |
| Solid conductor; push-in termination | 1.5 ... 4 mm ² / 16 ... 12 AWG |
| Stranded conductor | 0.5 ... 2.5 mm ² / 20 ... 14 AWG |
| Fine-stranded conductor | 0.5 ... 4 mm ² / 20 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 1.5 mm ² / 20 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm ² / 20 ... 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1.5 mm ² / 16 AWG |
| Strip length | 9 mm / 0.35 inches |
| Pole number | 4 |

Subject to changes. Please also observe the further product documentation!



| | |
|---|----|
| Conductor entry direction to mating direction | 0° |
|---|----|

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 45.5 mm / 1.791 inches |
| Height | 18.5 mm / 0.728 inches |
| Depth | 37.5 mm / 1.476 inches |

Mechanical Data

| | |
|---|---|
| Application | Control technology |
| Coding | B |
| Variable coding | Yes |
| Marking | 1 2 3 4 |
| Potential marking | 1 2 3 4 |
| Mating force of a plug-in connection | approx. 20 ... 70 N (depending on pole number) |
| Retention force of a plug-in connection | Locked: > 80 N |
| Unmating force of a plug-in connection | Unlocked: approx. 20 ... 70 N (depending on pole number) |
| Number of mating cycles | 200, without resistive load |
| Housing sheet thickness | 0.5 ... 2 mm / 0.02 ... 0.079 inches |
| Mounting type | Snap-in flange |
| Protection type | IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |

Plug-in connection

| | |
|------------------------------------|--|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type) | for conductor |
| Mismating protection | Yes |
| Note on mismating protection | All <i>WINSTA</i> [®] components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole |
| Locking lever | yes |
| Locking of plug-in connection | locking lever |
| Note on locking system | All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure |

Subject to changes. Please also observe the further product documentation!



plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug/socket).

Material Data

Note (material data)

Information on material specifications can be found here

| | |
|-----------------------------|---|
| Color | gray |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy; surface-treated |
| Contact plating | Tin |
| Fire load | 0.4 MJ |
| Weight | 15.6 g |

Environmental requirements

| | |
|--|---|
| Processing temperature | -5 ... +40 °C |
| Continuous operating temperature | -35 ... +85 °C |
| Note on continuous operating temperature | Insulating parts for temperatures \leq 105 °C |

Commercial data

| | |
|-----------------------|---------------|
| eCl@ss 10.0 | 27-44-06-02 |
| eCl@ss 9.0 | 27-44-06-02 |
| ETIM 8.0 | EC002566 |
| ETIM 7.0 | EC002566 |
| PU (SPU) | 100 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4044918252683 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

| | |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|



Approvals / Certificates

General approvals



Subject to changes. Please also observe the further product documentation!

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| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
| | CCA DEKRA Certification B.V. | IEC 61984 | NL-32104 |
|  | CCA DEKRA Certification B.V. | EN 61984 | 2173495.01 |
|  | cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |

Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|---|--|--------------------------|------------------|
|  | EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
|  | UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications



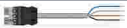
| Logo | Approval | Additional Approval Text | Certificate name |
|---|--|--------------------------|--------------------------|
|  | ABS American Bureau of Shipping | - | 19- HG1868589- PDA |
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
|  | LR Lloyds Register | IEC 61984 | LR22429487TA |

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Counterpart

| | | |
|--|--|--|
|  | Item no.770-254 Plug; 4-pole; Cod. B; 4,00 mm ² ; gray | www.wago.com/770-254 |
|  | Item no.771-9994/005-103 pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. B; Control cable 4 x 1.0 mm ² ; 1 m; 1,00 mm ² ; gray | www.wago.com/771-9994/005-103 |
|  | Item no.771-9994/205-103 pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm ² ; 1 m; 1,00 mm ² ; gray | www.wago.com/771-9994/205-103 |

Optional accessories


Cover

Cover

| | | |
|--|--|--|
|  | Item no.: 770-694 Lockout cap; 4-pole; for cutouts; Plastic; white | www.wago.com/770-694 |
|  | Item no.: 770-644 Lockout cap; 4-pole; for cutouts; Plastic; black | www.wago.com/770-644 |
|  | Item no.: 770-201 Lockout cap; 12-pole, separable; for sockets; Plastic; black | www.wago.com/770-201 |
|  | Item no.: 770-221 Lockout cap; 12-pole, separable; for sockets; Plastic; white | www.wago.com/770-221 |

Tool

Operating tool

| | | |
|--|---|--|
|  | Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | www.wago.com/210-719 |
|--|---|--|

Downloads

Documentation

Bid Text

| | | | |
|------------------------|-------------|----------------|----------|
| 770-744 X81 - Datei | 2019 Feb 19 | xml 3.0 kB | Download |
| 770-744 doc - Datei | 2015 Jun 8 | doc 24.1 kB | Download |

Subject to changes. Please also observe the further product documentation!

CAD/CAE-Data

CAD data

| | | |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 770-744 | URL | Download |
|----------------------|---------------------|--------------------------|

CAE data

| | | |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 770-744 | URL | Download |
|---------------------------|---------------------|--------------------------|

| | | |
|------------------------|---------------------|--------------------------|
| WSCAD Universe 770-744 | URL | Download |
|------------------------|---------------------|--------------------------|

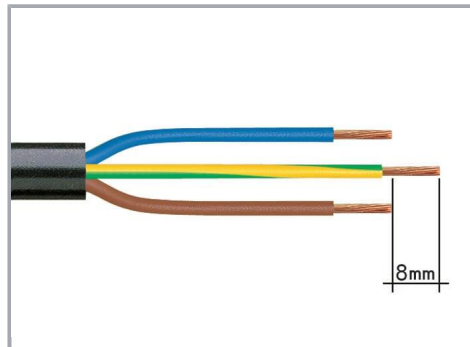
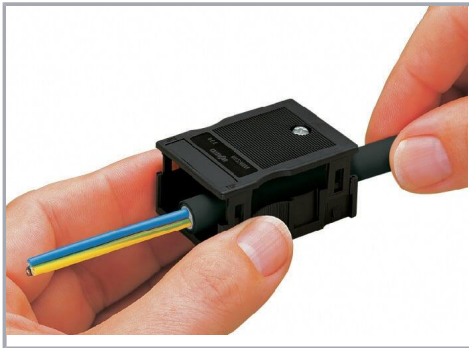
| | | |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 770-744 | URL | Download |
|----------------------|---------------------|--------------------------|

Environmental Product Compliance

Compliance Search

| | | |
|---|---------------------|--------------------------|
| Environmental Product Compliance 770-744 Snap-in socket; 4-pole; Cod. B; 4,00 mm ² ; gray | URL | Download |
|---|---------------------|--------------------------|

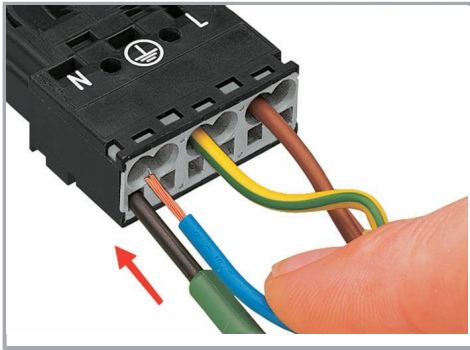
Installation Notes



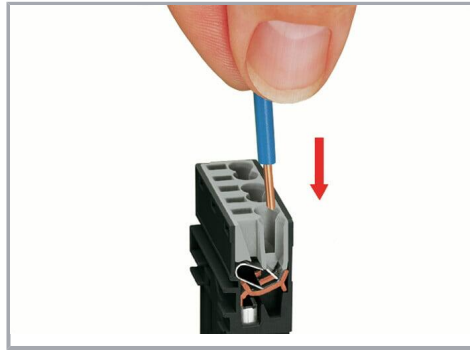
We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.

1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

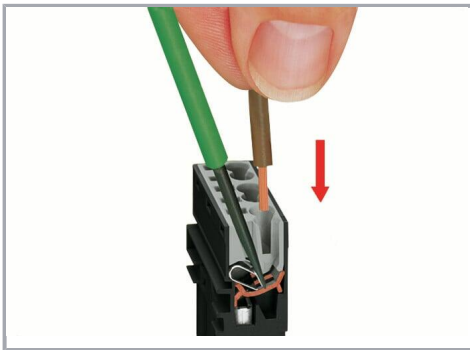
Subject to changes. Please also observe the further product documentation!



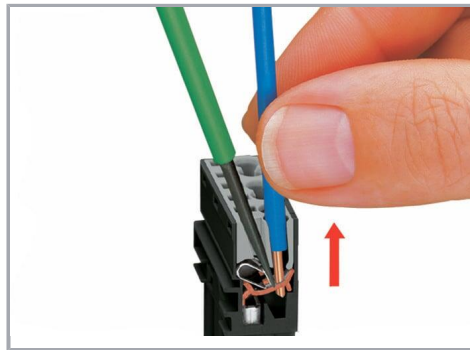
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.



Insert the stripped solid conductor until it hits the backstop.



To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.



To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Product family

WINSTA® MIDI

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!