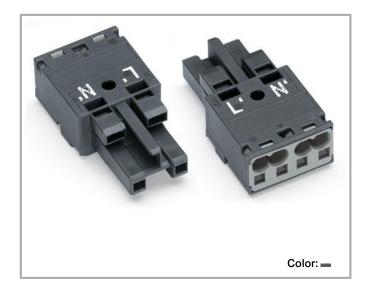
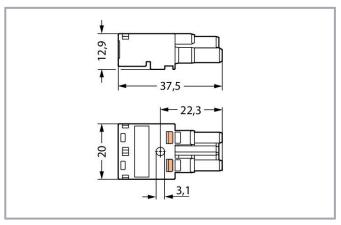
Socket; 2-pole; Cod. L; 4,00 mm²; dark gray

www.wago.com/770-1162







Item description

Female connector/socket WINSTA® MIDI rated current 25 A

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI female connector/socket 2-pole. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to various requirements in no time flat. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. The pluggable installation connector is protected against ingress by solid objects in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). L coding identifies WINSTA® MIDI pluggable installation connectors as used for in applications related to supplying power in automation. This pluggable installation connector is designed for a voltage load of up to 25 A. Thus, it can also be used for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in can be found in a variety of projects you can use for quick, easy and maximally flexible electrical installation.

WINSTA® MIDI solutions for your electrical installation - protected against mismating and maintenance-free

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection type IP20 from WAGO.

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

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- effective protection against mismating
- for automation controllers
- with L coding for use in supplying power to power supply units or small servo motors
- custom-engineered solutions
- rapid, structured electrical installation

Data

Electrical data

Ratings per IEC/EN

| Ratings per | IEC/EN 60664-1 |
|-------------------------------|---|
| Nominal voltage (III/3) | 250 V |
| Rated impulse voltage (III/3) | 4 kV |
| Rated current | 25 A |
| 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 information

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

Connection data

| Connection points | 4 |
|----------------------------|---|
| Total number of potentials | 2 |

Connection 1

| Connection technology | Push-in CAGE CLAMP® |
|-----------------------|---------------------|
| Actuation type | Operating tool |

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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| Push-in |
|--------------------------|
| 4 mm² / 12 AWG |
| 0.5 4 mm² / 20 12 AWG |
| 1.5 4 mm² / 16 12 AWG |
| 0.5 2.5 mm² / 20 14 AWG |
| 0.5 4 mm² / 20 12 AWG |
| 0.25 1.5 mm² / 20 16 AWG |
| 0.25 2.5 mm² / 20 14 AWG |
| 1.5 mm² / 16 AWG |
| 9 mm / 0.35 inches |
| 2 |
| 0 ° |
| |

Physical data

| Pin spacing | 10 mm / 0.394 inches |
|-------------|------------------------|
| Width | 20 mm / 0.787 inches |
| Height | 12.9 mm / 0.508 inches |
| Depth | 37.5 mm / 1.476 inches |

Mechanical Data

| Application | Emergency power supply |
|---|--|
| Coding | L |
| Variable coding | No |
| Marking | L' N' |
| Potential marking | L' N' |
| 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 |
| Protection type | IP20; When mated and secured with a strain relief housing: 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 |

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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| Note on mismating protection | All WINSTA® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered |
|-------------------------------|--|
| Locking lever | d.) plugging one pole Can be retrofitted |
| 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 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 | dark gray |
|-----------------------------|---|
| Cover color | gray |
| Material group | ı |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | VO |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy; surface-treated |
| Contact plating | Tin |
| Fire load | 0.126 MJ |
| Weight | 6.5 g |

Environmental requirements

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

Commercial data

| Product Group | 20 (Winsta) |
|---------------|-------------|
| eCl@ss 10.0 | 27-44-06-05 |
| eCl@ss 9.0 | 27-44-06-05 |
| ETIM 8.0 | EC002560 |

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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| ETIM 7.0 | EC002560 |
|-----------------------|---------------|
| ECCN | NO DATA |
| PU (SPU) | 100 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4050821028277 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------------------|--|--------------------------|------------------|
| KEMA | CCA DEKRA Certification B.V. | EN 61535 | 71- 123228 |
| | CCA DEKRA Certification B.V. | IEC 61535 | NL -84761 |
| c 711 °us | cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |
| c 91 0s | cURus Underwriters Laboratories Inc. | UL 1059 | E 45172 |

Declarations of conformity and manufacturer's declarations

VDE Prüf- und Zertifizierungsinstitut

VDE

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

EN 61535

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We are always happy to take your call at +49 (571) 887-44222.

40029808

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Approvals for marine applications

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

Counterpart

| * | Item no.770-7502 Linect® T-connector; 2-pole; Cod. L; 1 input; 2 outputs; white | www.wago.com/770-7502 |
|--------------|--|-----------------------------------|
| | Item no.770-1172 Plug; 2-pole; Cod. L; 4,00 mm²; dark gray | www.wago.com/770-1172 |
| = (1) | ltem no.771-8982/006-103 pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. L; H05VV-F $2 \times 1.5 \text{ mm}^2$; 1 m; 1,50 mm²; dark gray | www.wago.com/771-8982 /006-103 |
| | Item no.771-8982/206-103 pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. L; H05VV-F 2 x 1.5 mm²; 1 m; 1,50 mm²; dark gray | www.wago.com/771-8982 /206-103 |

Required accessories

Strain relief

Strain relief housing



Item no.: 770-502/041-000

Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 \dots 10.5 mm; 35 mm; black

www.wago.com/770-502

/041-000



Item no.: 770-502/042-000

Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; black

www.wago.com/770-502

/042-000

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Item no.: 770-512/041-000

Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; white

www.wago.com/770-512 /041-000



Item no.: 770-512/042-000

Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; white

www.wago.com/770-512

/042-000

Locking levers

Locking system



Item no.: 770-121

Locking lever; for flying leads; for manual operation; white

www.wago.com/770-121



Item no.: 770-131

Locking lever; for flying leads; for tool operation; white

www.wago.com/770-131



Item no.: 770-101

Locking lever; for flying leads; for manual operation; black

www.wago.com/770-101



Item no.: 770-111

Locking lever; for flying leads; for tool operation; black

www.wago.com/770-111

Optional accessories

Mounting

Mounting accessories



Item no.: 770-317

Snap-in frame; 2-pole; 1.0 ... 3.0 mm; black

www.wago.com/770-317



Item no.: 770-337

Snap-in frame; 2-pole; 1.0 ... 3.0 mm; white

www.wago.com/770-337



Item no.: 897-2100

Mounting plate; for Snap-in; Plastic; for detectors and sensors; Ø 200 mm; red

www.wago.com/897-2100

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



Item no.: 770-382

Operating tool; 2-way; green

www.wago.com/770-382

Cover

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Cover

1

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



Item no.: 897-2003

Protective cap; Type2; for sockets and plugs; PVC; red

www.wago.com/897-2003

Downloads Documentation

Bid Text

| 770-1162 X81 - Datei | 2019 Feb 19 | xml 3.0 kB | Download |
|-------------------------|-------------|----------------|----------|
| 770-1162 doc - Datei | 2015 Jun 8 | doc 24.1 kB | Download |

CAD/CAE-Data

CAE data

| EPLAN Data Portal 770-1162 | URL | Download |
|-------------------------------------|-----|----------|
| WSCAD Universe 770-1162 | URL | Download |
| CAD data | | |
| 2D/3D Models 770-1162 | URL | Download |
| Asset Administration Shell | | |
| Asset Administration Shell 770-1162 | URL | Download |

Environmental Product Compliance

Compliance Search

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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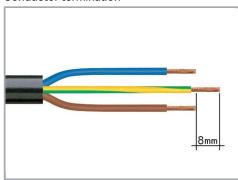
Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com Do you have any questions about our products?



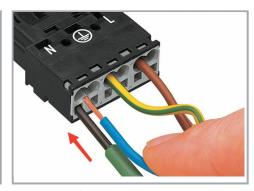
Environmental Product Compliance 770-1162 Socket; 2-pole; Cod. L; 4,00 mm²; dark gray

Installation Notes

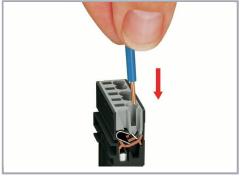
Conductor termination



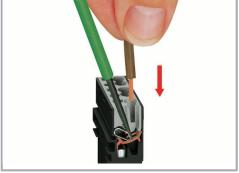
- 1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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.

Conductor removal

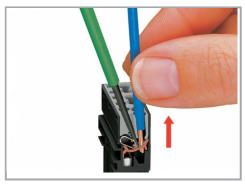
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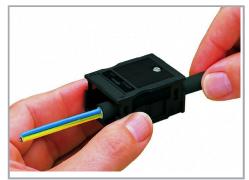
www.wago.com/770-1162



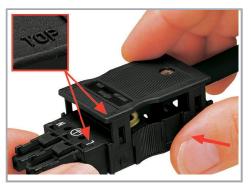


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

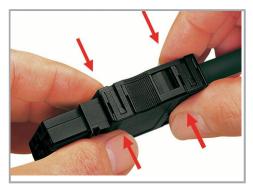
Installation



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.



Latch the strain relief housing onto the plug /socket. Note the "TOP" inscription.



Prepare strain relief housing by snapping together upper and bottom part.



Tighten strain relief screw with screwdriver (2.5 mm blade width).

Product family

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Show all products from the family

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