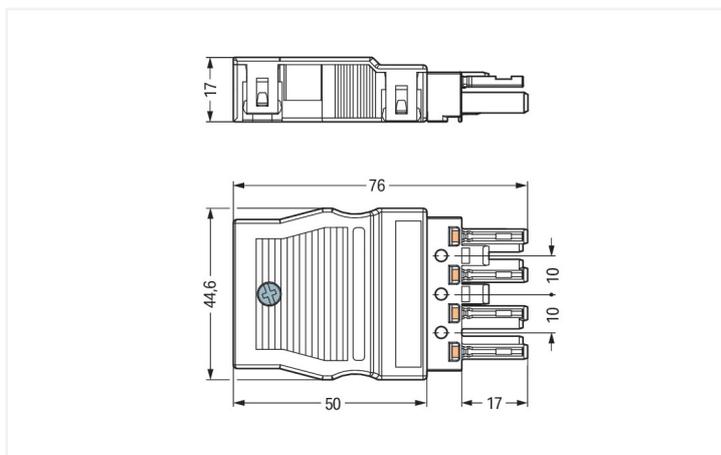
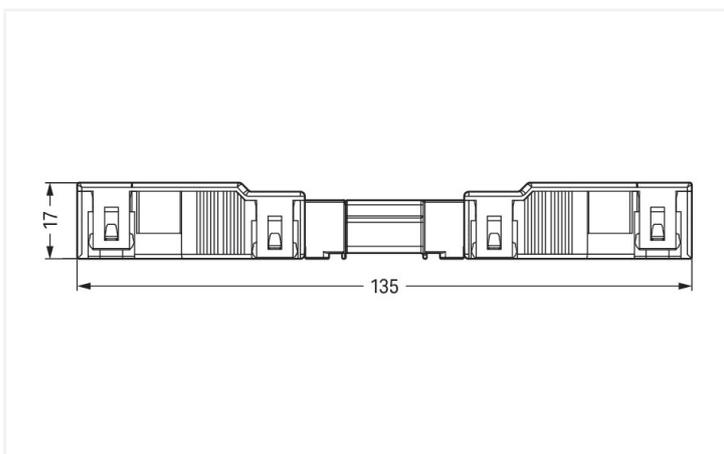




Color: ■ white



Dimensions in mm



Dimensions in mm
Overall length when mated

Female connector/socket WINSTA® MIDI with strain relief

The WINSTA® MIDI female connector/socket with protection against mismatching supports rapid, correct installation. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to a huge variety of requirements in

seconds. For greater security in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismatching. The pluggable installation connector offers protection against contact with live components 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!)). General mains applications for almost any domain of use can be realised with WINSTA® MIDI pluggable installation connectors with A coding. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is ideally suitable for high power loads. The WINSTA® MIDI product line achieves total flexibility for the installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees error-free, time-saving installation and offers customization for meeting all installation requirements. The strip length is 55 mm.

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

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with strain relief hosting from WAGO.

- pluggable installation connectors with protection against mismatching
- simple circuits
- with A coding for a large number of uses
- custom-engineered solutions
- convenient installation and commissioning

This item includes:

| | |
|---|---|
|  |  |
| Item No.: 770-514 | Item No.: 770-224 |
| 1 | 1 |
| Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white | Socket; 4-pole; Cod. A; white |

Notes

| | |
|----------------------------|--|
| General safety information | <p>NOTICE: Observe installation and safety instructions!</p> <ul style="list-style-type: none"> • Nur von Elektrofachkraft oder einer für die Tätigkeit elektrisch unterwiesenen Person (EUP nach DIN VDE 0105-100) anzuwenden! • Nicht unter Spannung/Last installieren! • Nur für bestimmungsgemäßen Gebrauch einsetzen! • Nationale Vorschriften/Normen/Richtlinien beachten! • Technische Daten der Produkte beachten! • Auf die richtige Polbelegung achten! • Keine beschädigten/verschmutzten Komponenten verwenden! • Leiterarten, -querschnitte, Abisolierlängen und Leitungsdurchmesser beachten! • Leiter bis zum Anschlag einführen! • Nur mit Verriegelungsklinke und Zugentlastung verwenden! • Originalzubehör verwenden! <p>To be sold only with installation instructions!</p> |
|----------------------------|--|

Electrical data

| Ratings per | IEC/EN 60664-1 | | | Approvals per | UL 1977 |
|---------------------------------|----------------|-----|----|---------------|---------|
| Overvoltage category | III | III | II | Rated voltage | 600 V |
| Pollution degree | 3 | 2 | 2 | Rated current | 23 A |
| Nominal voltage | 400 V | - | - | | |
| Rated impulse withstand voltage | 6 kV | - | - | | |
| Rated current | 25 A | - | - | | |

General information

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

Connection Data

| | |
|----------------------------|---|
| Clamping units | 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 |
| Connectable sheathed cable diameter | 9 ... 13 mm |
| Conductor entry direction to mating direction | 0° |
| Strip length (outer insulation) | 55 mm |

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 44.6 mm / 1.756 inches |
| Height | 17 mm / 0.669 inches |
| Depth | 76 mm / 2.992 inches |

Mechanical data

| | |
|---|--|
| Use | General mains applications |
| Coding | A |
| Variable coding | Yes |
| Marking | N ⊕ 2/L 1/L' |
| Potential marking | N ⊕ 2/L 1/L' |
| 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!) |
| Screw tightening torque | 0.5 Nm |

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 | Can be retrofitted |
| Locking of plug-in connection | Locking lever |

Plug-in connection

| | |
|------------------------|--|
| 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). |
| Strain relief | Strain relief housing |

Material data

| | |
|------------------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | white |
| Cover color | gray |
| Material group | I |
| Insulation material (main housing) | 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 | 0.575 MJ |
| Connector color | white |
| Strain relief color | white |
| Weight | 24.8 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) |
| PU (SPU) | 25 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4044918252188 |
| Customs tariff number | 85366990990 |

Product Classification

| | |
|-------------|----------------------|
| UNSPSC | 39121402 |
| eCl@ss 10.0 | 27-44-06-05 |
| eCl@ss 9.0 | 27-44-06-05 |
| ETIM 9.0 | EC002560 |
| ETIM 10.0 | EC002560 |
| ECCN | NO US CLASSIFICATION |

Environmental Product Compliance

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

Approvals / Certificates

General approvals **Declarations of conformity and manufacturer's declarations**



| Approval | Standard | Certificate Name |
|--|-----------|------------------|
| CCA DEKRA Certification B.V. | EN 61535 | 71-123228 |
| CCA DEKRA Certification B.V. | IEC 61535 | NL -84761 |
| cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |
| cURus Underwriters Laboratories Inc. | UL 1059 | E 45172 |
| VDE VDE Prüf- und Zertifizierungsinstitut | EN 61984 | 40002889 |
| VDE VDE Prüf- und Zertifizierungsinstitut | EN 61535 | 40029808 |

| Approval | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications



| Approval | Standard | Certificate Name |
|--|-----------|------------------|
| ABS American Bureau of Shipping | - | 24-0095977-PDA |
| DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
| LR Lloyds Register | IEC 61984 | LR22429487TA |

Downloads

Environmental Product Compliance

Compliance Search

| | |
|--|-------------------|
| Environmental Product Compliance 770-124 | ↓ |
|--|-------------------|

Documentation

| Bid Text | | | |
|----------------------------|------------|-----------------|-------------------|
| 770-124 | 08.06.2015 | doc 23.50 KB | ↓ |
| 770-124 | 19.02.2019 | xml 3.01 KB | ↓ |
| ausschreiben.de 770-124 | | | ↓ |

CAD/CAE-Data

| CAD data | CAE data |
|--|--|
| 2D/3D Models 770-124 ↓ | EPLAN Data Portal 770-124 ↓ |
| | WSCAD Universe 770-124 ↓ |
| | ZUKEN Portal 770-124 ↓ |

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 771-9994/206-102

pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white

Item No.: 771-9994/006-102

pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white

1.1.2 Distribution connector



Item No.: 770-994

h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white



Item No.: 770-995

h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white



Item No.: 770-6224

Linect® T-connector; 4-pole; Cod. A; 1 input; 2 outputs; white



Item No.: 770-676

T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white



Item No.: 770-677

T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white

1.1.3 Male connector/plug



Item No.: 770-834/011-000

Plug for PCBs; angled; 4-pole; Cod. A; white

Item No.: 770-834

Plug for PCBs; straight; 4-pole; Cod. A; white

Item No.: 770-234

Plug; 4-pole; Cod. A; white

Item No.: 770-134

Plug; with strain relief housing; 4-pole; Cod. A; 4,00 mm²; white



Item No.: 770-734

Snap-in plug; 4-pole; Cod. A; white

Item No.: 770-734/007-000

Snap-in plug; with direct ground contact; 4-pole; Cod. A; white

1.2 Required Accessories

1.2.1 Cover

1.2.1.1 Cover



Item No.: 770-201

Lockout cap; 12-pole, separable; for sockets; Plastic; black

Item No.: 770-221

Lockout cap; 12-pole, separable; for sockets; Plastic; white

1.2.2 Locking system

1.2.2.1 Locking system



Item No.: 770-101

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

Item No.: 770-121

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

Item No.: 770-111

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

Item No.: 770-131

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

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 Cover



Item No.: 897-2005

Protective cap; Type4; for sockets and plugs; PVC; red

1.3.2 Marking

1.3.2.1 Marker



Item No.: 770-450/000-006

Marker card; Plastic; blue

Item No.: 770-450/000-001

Marker card; Plastic; green

Item No.: 770-450/000-012

Marker card; Plastic; orange

Item No.: 770-450/000-005

Marker card; Plastic; red



Item No.: 770-450

Marker card; Plastic; white

Item No.: 770-450/000-002

Marker card; Plastic; yellow

1.3.3 Tool

1.3.3.1 Operating tool

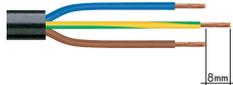


Item No.: 210-719

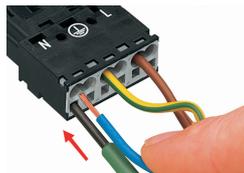
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

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.

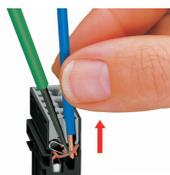


Insert the stripped solid conductor until it hits the backstop.



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



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).