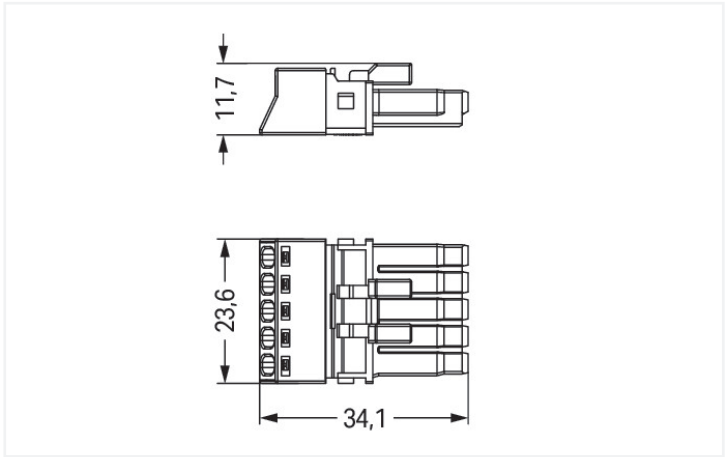


Color: blue



Dimensions in mm

Female connector/socket WINSTA® MINI rated current 16 A

The WINSTA® MINI female connector/socket rated current 16 A allows installation of fine-stranded and solid conductors. Our pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow resource-efficient, error-free installation in a large number of possible uses. The coding options reduce installation errors, allowing fast, secure wiring of all components. WINSTA® MINI pluggable installation connectors with I coding in blue are particularly suitable for lighting management, for instance for the dimming function of DALI lights. WINSTA® MINI is our response to the trend toward miniaturisation. Our smallest pluggable connection system is primarily suited for lights, for example, since as a result of LED technology; due to complex systems, these offer significantly less space for the connection technology.

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

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Choose quality and durability – the WINSTA® MINI pluggable installation connector with marking from WAGO makes the installation of electrical components significantly easier.

- effective protection against mismatching
- consistent IP40 protection
- with I coding for use in the automation of buildings (lighting control)
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

| Electrical data | | | |
|-------------------------------|---|-------------------------|---|
| Ratings per IEC/EN | | Ratings per UL 1977 | |
| Ratings per | IEC/EN 60664-1 | 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 5 A and voltages up to 600 V. For further information, please contact your local sales office. |
| Nominal voltage (III/3) | 400 V | | |
| Rated impulse voltage (III/3) | 6 kV | | |
| Rated current | 16 A | | |
| Legend (ratings) | (III / 3) Δ Overvoltage category III / Pollution degree 3 | Rated voltage (UL 1977) | 600 V |
| | | Rated current UL 1977 | 12 A |

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

Connection data

| | |
|----------------------------|---|
| Connection points | 5 |
| Total number of potentials | 5 |

| Connection 1 | |
|--|-----------------------------------|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross-section | 1.5 mm² / 16 AWG |
| Solid conductor | 0.25 ... 1.5 mm² / 22 ... 16 AWG |
| Solid conductor; push-in termination | 0.75 ... 1.5 mm² / 20 ... 16 AWG |
| Stranded conductor | 0.25 ... 1 mm² / 22 ... 18 AWG |
| Fine-stranded conductor | 0.25 ... 1.5 mm² / 22 ... 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 0.75 mm² / 22 ... 20 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 0.75 mm² / 22 ... 20 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0.75 mm² / 20 AWG |
| Strip length | 9 mm / 0.35 inches |
| Pole number | 5 |
| Conductor entry direction to mating direction | 0° |

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 4.4 mm / 0.173 inches |
| Width | 23.6 mm / 0.929 inches |
| Height | 11.7 mm / 0.461 inches |
| Depth | 34.1 mm / 1.343 inches |

Mechanical data

| | |
|---|--|
| Application | DALI, Lighting Management |
| Coding | I |
| Variable coding | No |
| Marking | N ⊕ L - + |
| Potential marking | N ⊕ 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; IP40 with strain relief housing |

Plug-in connection

| | |
|------------------------------------|--|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type) | for conductor |
| Mismating protection | Yes |
| 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 d.) plugging one pole |
| Locking lever | 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 | blue |
| Cover color | gray |
| Material group | I |
| 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 | 0.154 MJ |
| Weight | 6 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 |
| ETIM 7.0 | EC002560 |
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4055143548588 |
| Customs tariff number | 85366990990 |

| Approvals / Certificates | |
|--------------------------|--|
| General approvals | Declarations of conformity and manufacturer's declarations |



| Approval | Standard | Certificate Name |
|---|-----------|------------------|
| CCA DEKRA Certification B.V. | EN 61535 | 71-123231 |
| CCA DEKRA Certification B.V. | IEC 61535 | NL-85020 |
| cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |

| Approval | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |



Approvals for marine applications



| Approval | Standard | Certificate Name |
|---|--------------------|------------------|
| ABS American Bureau of Ship- ping | Steel Vessel Rules | 19-HG1869855-PDA |
| DNV GL Det Norske Veritas, Ger- manischer Lloyd | - | TAE00001Z6 |
| LR Lloyds Register | EN 61535 | 08/20047 (E2) |

Downloads

Environmental Product Compliance

| Compliance Search |
|--|
| Environmental Product Compliance 890-1105 |



Documentation

| Bid Text | | | |
|----------|------------|-----------------|--|
| 890-1105 | 19.02.2019 | xml 2.93 KB | |
| 890-1105 | 08.06.2015 | doc 23.00 KB | |

CAD/CAE-Data

| CAD data |
|--------------------------|
| 2D/3D Models 890-1105 |



| CAE data |
|----------------------------|
| WSCAD Universe 890-1105 |
| ZUKEN Portal 890-1105 |



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 891-8985/206-101
pre-assembled connecting cable; Eca;
Plug/open-ended; 5-pole; Cod. I; H05VV-F
5G 1.5 mm²; 1 m; 1,50 mm²; blue

Item No.: 891-8985/006-101
pre-assembled interconnecting cable;
Eca; Socket/plug; 5-pole; Cod. I; H05VV-F
5G 1.5 mm²; 1 m; 1,50 mm²; blue



1.1.2 Distribution connector



Item No.: 890-982
h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on one side; 2 locking levers; blue



Item No.: 890-983
h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; blue



Item No.: 890-617
T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 2 locking levers; blue



Item No.: 890-620
T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 3 locking levers; for flying leads; blue

1.1.3 Male connector/plug



Item No.: 890-3115/011-000
Plug for PCBs; angled; 5-pole; Cod. I; blue



Item No.: 890-3115
Plug for PCBs; straight; 5-pole; Cod. I; blue



Item No.: 890-1115
Plug; 5-pole; Cod. I; 1,50 mm²; blue



Item No.: 890-2115
Snap-in plug; 5-pole; Cod. I; 1,50 mm²; blue

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 Locking system



Item No.: 890-111
Locking lever; for flying leads; for tool operation; black



Item No.: 890-131
Locking lever; for flying leads; for tool operation; white



Item No.: 890-101
Locking lever; for manual operation; black



Item No.: 890-121
Locking lever; for manual operation; white

1.2.2 Strain relief

1.2.2.1 Strain relief housing



Item No.: 890-505
Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; black



Item No.: 890-515
Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; white

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 Cover



Item No.: 897-2003
Protective cap; Type2; for sockets and plugs; PVC; red

1.3.2 Installation

1.3.2.1 Mounting accessories



Item No.: 890-310
Mounting carrier; 2- to 5-pole; for flying leads; black



Item No.: 890-311
Mounting carrier; 2- to 5-pole; for flying leads; white

1.3.3 Shield termination

1.3.3.1 Shield termination



Item No.: 890-526
Shield connecting plate; 5-pole; for sockets

1.3.4 Tool

1.3.4.1 Operating tool



Item No.: 890-385
Operating tool; 5-way; green



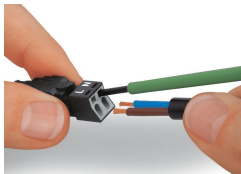
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

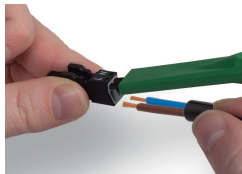
Conductor termination



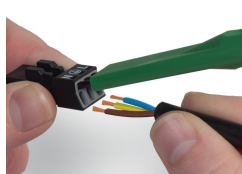
- 1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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. Terminate solid conductors by simply pushing them in.



To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.

Installation



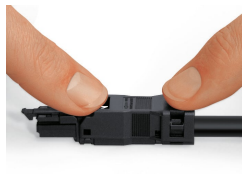
Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.







Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.



Latch the top of the strain relief housing.

Shield termination

| | | | |
|---|---|--|---|
|  |  |  |  |
| Connector with shield termination | Apply the shield to the sheathed cable. Strip length, outer insulation = 30 mm Shield length = 8 mm | Push the shield connecting plate into the connector until fully inserted. | First insert the wired connector into strain relief housing, then snap clamp and cover. |