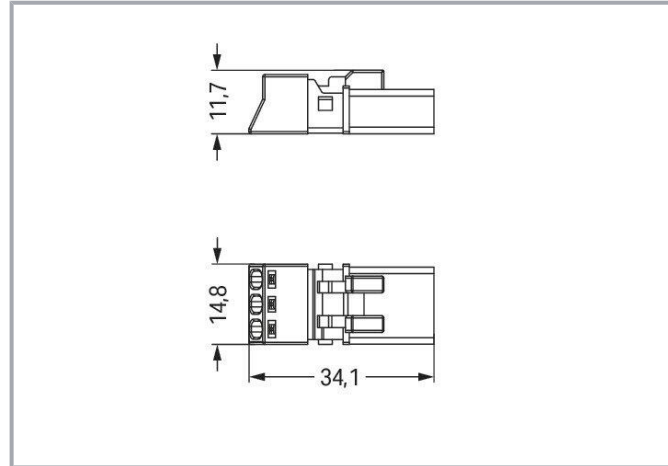
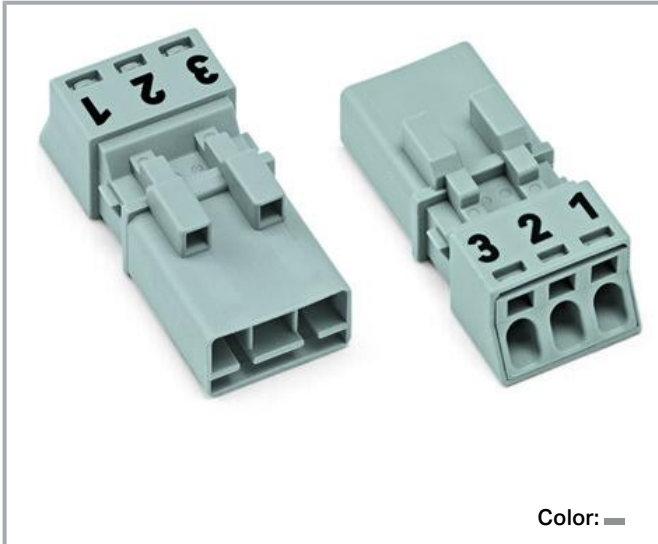


Data sheet | Item number: 890-253
Plug; 3-pole; Cod. B; 1,50 mm²; gray

www.wago.com/890-253



Item description

Male connector/plug *WINSTA*® MINI with protection type IP20

The *WINSTA*® MINI male connector/plug B coding provides the foundation for installation of fine-stranded and solid conductors. WAGO pluggable installation connectors are used when requirements repeat or are distributed on a specific grid, for example for installing grid lighting or flush-mount lighting. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. B coding enables the *WINSTA*® MINI pluggable installation connectors to be used for application control in the domains of automation, robotics, and mechanical engineering. *WINSTA*® MINI is our response to the trend toward miniaturisation. Our smallest pluggable connection system is very good for lights, for instance, since as a result of LED technology; due to complex systems, these offer much less space for the connection technology.

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

The *WINSTA*® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Now you can also cut installation expenses without compromising quality and safety: with marking eliminates the need for servicing and prevents unnecessary downtime.

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

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- effective protection against mismatching
- easy tool-free operation, a wide range of coding options
- with B coding for controllers such as lighting fixtures and sun blinds
- ready to install and use immediately
- 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 |
| Nominal voltage (III/3) | 250 V |
| Rated impulse voltage (III/3) | 4 kV |
| Rated current | 16 A |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

Ratings per IEC/EN – Notes

| | |
|----------------------|----------------------|
| Note (rated current) | 13 A for 3-pole load |
|----------------------|----------------------|

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 5 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 | 14 A |

General information

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

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

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Connection data

| | |
|----------------------------|---|
| Connection points | 3 |
| Total number of potentials | 3 |

Connection 1

| | |
|--|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross-section | 1.5 mm ² / 16 AWG |
| Solid conductor | 0.25 ... 1.5 mm ² / 22 ... 16 AWG |
| Solid conductor; push-in termination | 0.75 ... 1.5 mm ² / 20 ... 16 AWG |
| Stranded conductor | 0.25 ... 1 mm ² / 22 ... 18 AWG |
| Fine-stranded conductor | 0.25 ... 1.5 mm ² / 22 ... 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 0.75 mm ² / 22 ... 20 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 0.75 mm ² / 22 ... 20 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0.75 mm ² / 20 AWG |
| Strip length | 9 mm / 0.35 inches |
| Pole number | 3 |
| Conductor entry direction to mating direction | 0° |

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 4.4 mm / 0.173 inches |
| Width | 15 mm / 0.591 inches |
| Height | 11.7 mm / 0.461 inches |
| Depth | 34.1 mm / 1.343 inches |

Mechanical Data

| | |
|---|--|
| Application | Control technology |
| Coding | B |
| Variable coding | No |
| Marking | 3 2 1 |
| Potential marking | 3 2 1 |
| 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 |

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



| | |
|-----------------|--|
| Protection type | IP20; IP40 when mated with strain relief housing |
|-----------------|--|

Plug-in connection

| | |
|------------------------------------|--|
| Contact type (pluggable connector) | Male connector/plug |
| 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 |
| 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 | gray |
| 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 | 0.111 MJ |
| Weight | 3.6 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 |

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

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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 |
| ECCN | NO DATA |
| PU (SPU) | 50 pcs |
| Packaging type | box |
| Country of origin | PL |
| GTIN | 4055143499859 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

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

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
| | CB DEKRA Certification B.V. | IEC 61984 | NL-64351 |
|  | CB DEKRA Certification B.V. | EN 61984 | 71-112993 |
|  | cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |
|  | KEMA/KEUR DEKRA Certification B.V. | EN 60320 | 2148952.04 |

Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|------|------------------------------|--------------------------|------------------|
| | EU-Declaration of Conformity | - | - |

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





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UK-Declaration of Conformity

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Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|--------------------------|------------------|
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
|  | LR Lloyds Register | EN 61535 | 08/20047 (E2) |

Counterpart

| | | |
|--|--|--|
|  | Item no.890-1761 h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; gray | www.wago.com/890-1761 |
|  | Item no.890-1661 h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; gray | www.wago.com/890-1661 |
|  | Item no.890-243 Socket; 3-pole; Cod. B; 1,50 mm ² ; gray | www.wago.com/890-243 |
|  | Item no.890-743 Snap-in socket; 3-pole; Cod. B; 1,50 mm ² ; gray | www.wago.com/890-743 |
|  | Item no.890-843 Socket for PCBs; straight; 3-pole; Cod. B; gray | www.wago.com/890-843 |
|  | Item no.891-8993/005-103 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. B; 1 m; 1,00 mm ² ; gray | www.wago.com/891-8993/005-103 |
|  | Item no.890-843/011-000 Socket for PCBs; angled; 3-pole; Cod. B; gray | www.wago.com/890-843/011-000 |
|  | Item no.891-8993/105-103 pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm ² ; gray | www.wago.com/891-8993/105-103 |

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

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Required accessories

Locking levers

Locking system



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

www.wago.com/890-111



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

www.wago.com/890-101



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

www.wago.com/890-121



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

www.wago.com/890-131

Strain relief

Strain relief housing



Item no.: 890-513
Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; white

www.wago.com/890-513



Item no.: 890-503
Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; black

www.wago.com/890-503

Optional accessories

Mounting

Mounting accessories



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

www.wago.com/890-310



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

www.wago.com/890-311

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

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



Item no.: 890-383
Operating tool; 3-way; green

www.wago.com/890-383

Cover

Cover



Item no.: 897-2001
Protective cap; Type1; for sockets and plugs; PVC; red

www.wago.com/897-2001

Downloads

Documentation

Bid Text

| | | | |
|------------------------|-------------|----------------|----------|
| 890-253 X81 - Datei | 2019 Feb 19 | xml 3.0 kB | Download |
| 890-253 doc - Datei | 2015 Jun 8 | doc 24.1 kB | Download |

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 890-253 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 890-253 | URL | Download |
|---------------------------|-----|----------|

| | | |
|----------------------|-----|----------|
| ZUKEN Portal 890-253 | URL | Download |
|----------------------|-----|----------|

| | | |
|------------------------|-----|----------|
| WSCAD Universe 890-253 | URL | Download |
|------------------------|-----|----------|

Asset Administration Shell

| | | |
|------------------------------------|-----|----------|
| Asset Administration Shell 890-253 | URL | Download |
|------------------------------------|-----|----------|

Environmental Product Compliance

Compliance Search

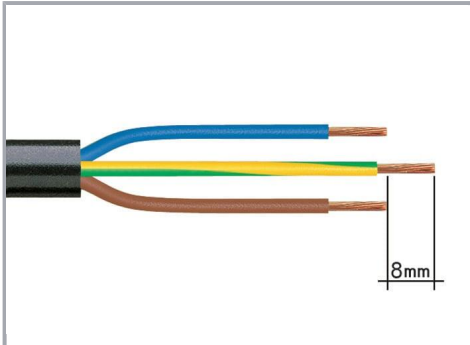
| | | |
|--|-----|----------|
| Environmental Product Compliance 890-253 | URL | Download |
|--|-----|----------|

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

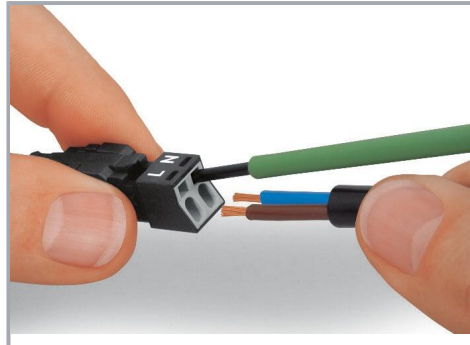
Plug; 3-pole; Cod. B; 1,50 mm²; gray

Installation Notes

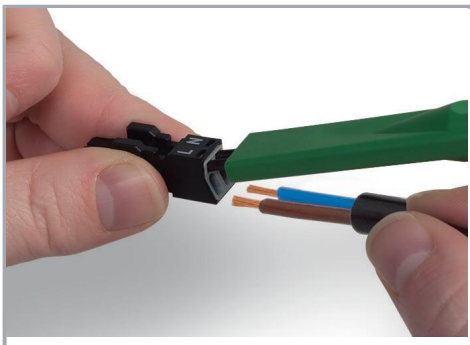
Conductor termination



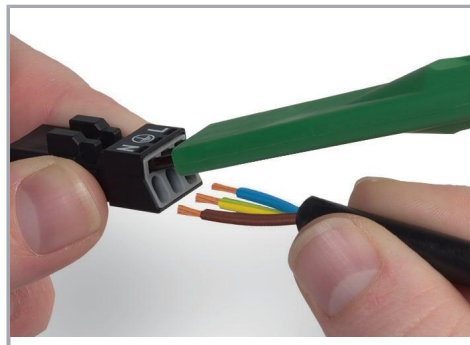
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.



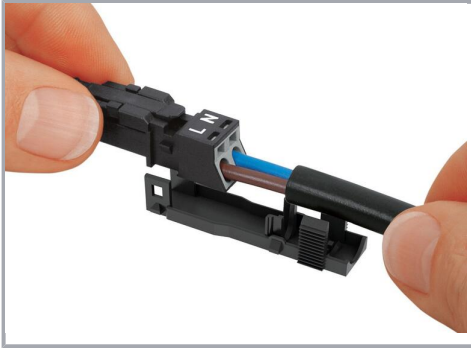
To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



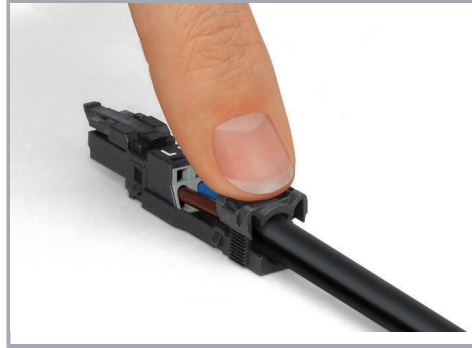
To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.

Installation

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



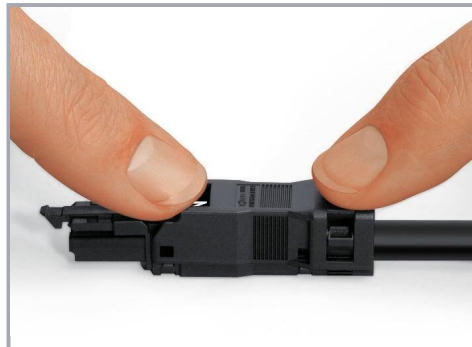
Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.



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



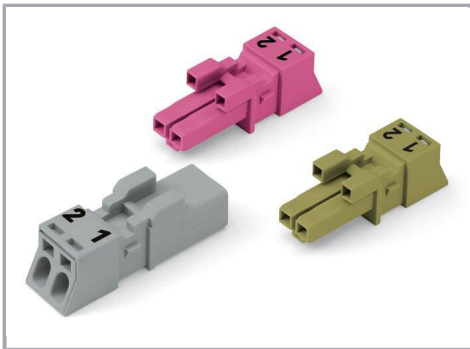
Latch the top of the strain relief housing.

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

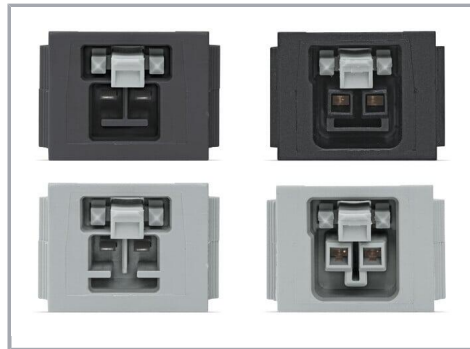


The printed marking of the connector is clearly visible in the openings of the strain relief housing.

Mismatching protection



B-coded connectors with different colors can be plugged together.

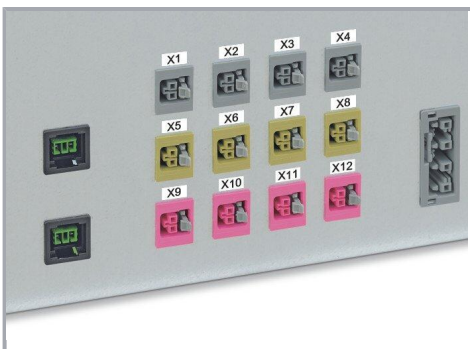


B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.

Important note:

Different colors and/or pole markings are used for circuit identification.

Only connectors of the same color and same pole marking must be plugged together.



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

Data sheet | Item number: 890-253

www.wago.com/890-253



Product family

WINSTA® MINI

[Show all products from the family](#)

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