

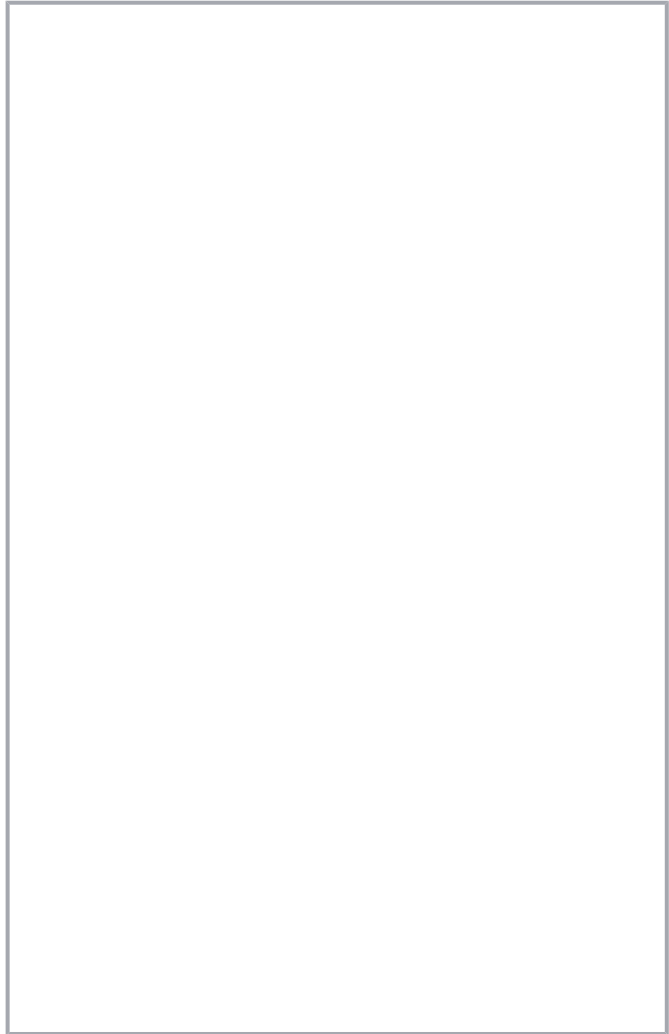
Data sheet | Item number: 890-783

Snap-in socket; 3-pole; Cod. B; 1,50 mm²; pink

www.wago.com/890-783



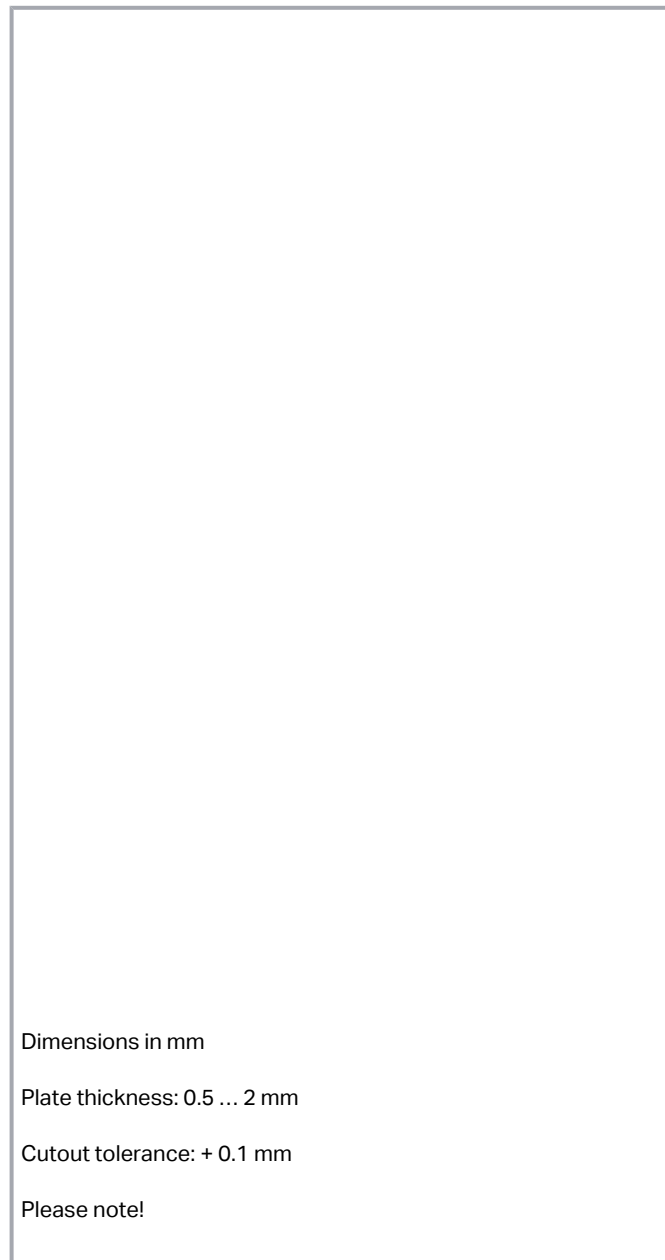
Color:



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

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Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Item description

Female connector/socket *WINSTA*® MINI rated current 16 A

For signal and power transmission: The *WINSTA*® MINI female connector/socket with protection against mismatching. WAGO pluggable installation connectors are used when criteria repeat or are planned on a defined grid, for example for installing grid lighting or flush-mount lighting. The coding

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options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected in accordance with protection type IP40. Users' fingers and tools will never come into contact with live elements. Solutions like the *WINSTA*® MINI pluggable installation connectors with B coding are suitable for applications related to process control, for example, for lighting or in data networks. Particularly where space is tight, our smallest pluggable connection system, *WINSTA*® MINI, consistently displays its advantageous properties. It saves space, and, with Push-in CAGE CLAMP® spring pressure connection technology, it also can be installed quickly, since the connection is low-maintenance and can be performed without screw connections.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The *WINSTA*® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and thus more efficient, even more reliable, and error-free. Use of this pre-assembled system decreases time spent on assembly and errors during installation at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MINI pluggable installation connectors with protection type IP40 from WAGO.

- effective protection against mismatching
- consistent IP40 protection
- for automation controllers
- ready for immediate use
- fast, secure installation

Data Notes

| | |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note | The snap-in connectors must be relieved of tensile and transverse forces. A surface finish can influence the edge radius of the cutouts. This may affect the snap-in socket fit, so ensure an adequate fit before use. In addition, the punched edge should be on the inside for punched cutouts. The wings of the snap-in connectors must not be mechanically stressed for a long period before use (e.g., due to a pre-locking position). |
| Variants: | Other pole markings Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/ . |

Electrical data

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



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 |
| Note (rated current) | 13 A for 3-pole load |
| Legend (ratings) | (III / 3) \triangleq 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 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 m Ω of contact resistance approx. 0.25 m Ω contact transition plug/socket |
|----------------------------|------------------------------------------------------------------------------------------------------|

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 |

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| | |
|-----------------------------------------------|----|
| Pole number | 3 |
| Conductor entry direction to mating direction | 0° |

Physical data

| | |
|-------------|-------------------------|
| Pin spacing | 4.4 mm / 0.173 inches |
| Width | 24.2 mm / 0.953 inches |
| Height | 16 mm / 0.63 inches |
| Depth | 39.85 mm / 1.569 inches |

Mechanical Data

| | |
|-----------------------------------------|----------------------------------------------------------|
| Application | Control technology |
| Coding | B |
| Variable coding | No |
| Marking | 1 2 3 |
| Potential marking | 1 2 3 |
| 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 | IP40 |

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 | 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 |

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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 | pink |
| 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 | 0.044 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 \leq 105 °C |

Commercial data

| | |
|-----------------------|---------------|
| Product Group | 20 (Winsta) |
| 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) | 50 (50) pcs |
| Packaging type | box |
| Country of origin | PL |
| GTIN | 4055143427746 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

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

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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 WAGO GmbH & Co. KG | - | - |
| | UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

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.891-8993/005-107 pre-assembled interconnecting cable; Socket/plug; 3-pole; Cod. B; 1 m; 1,00 mm ² ; pink | www.wago.com/891-8993/005-107 |
| Item no.890-293 Plug; 3-pole; Cod. B; 1,50 mm ² ; pink | www.wago.com/890-293 |
| Item no.891-8993/205-107 pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm ² ; pink | www.wago.com/891-8993/205-107 |

Optional accessories

Tool

| |
|----------------|
| Operating tool |
|----------------|

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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.: 890-383

Operating tool; 3-way; green

www.wago.com/890-383

Cover

Cover

Item no.: 890-643

Lockout cap; 3-pole; for cutouts; Plastic; black

www.wago.com/890-643

Item no.: 890-693

Lockout cap; 3-pole; for cutouts; Plastic; white

www.wago.com/890-693

Downloads

Documentation

Bid Text

| | | | |
|------------------------|-------------|----------------|----------|
| 890-783 X81 - Datei | 2019 年2月19日 | xml 3.0 kB | Download |
| 890-783 doc - Datei | 2015 年6月8日 | doc 23.6 kB | Download |

CAD/CAE-Data

CAE data

| | | |
|---------------------------|-----|----------|
| ZUKEN Portal 890-783 | URL | Download |
| WSCAD Universe 890-783 | URL | Download |
| EPLAN Data Portal 890-783 | URL | Download |

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 890-783 | URL | Download |
|----------------------|-----|----------|

Environmental Product Compliance

Compliance Search

| | | |
|---------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 890-783 Snap-in socket; 3-pole; Cod. B; 1,50 mm ² ; pink | URL | Download |
|---------------------------------------------------------------------------------------------------------|-----|----------|

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Installation Notes

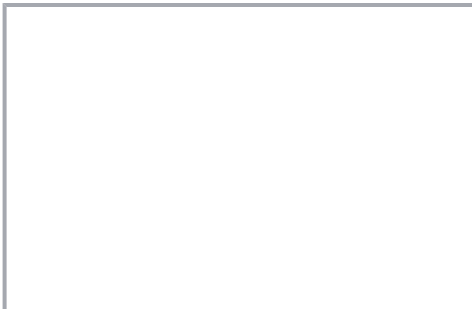
Conductor termination



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.

Mismatching protection

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



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

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.

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



Product family

WINSTA® MINI

[Show all products from the family](#)

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