

Data sheet | Item number: 890-2112

Snap-in plug; 2-pole; Cod. I; 1,50 mm²; blue

www.wago.com/890-2112



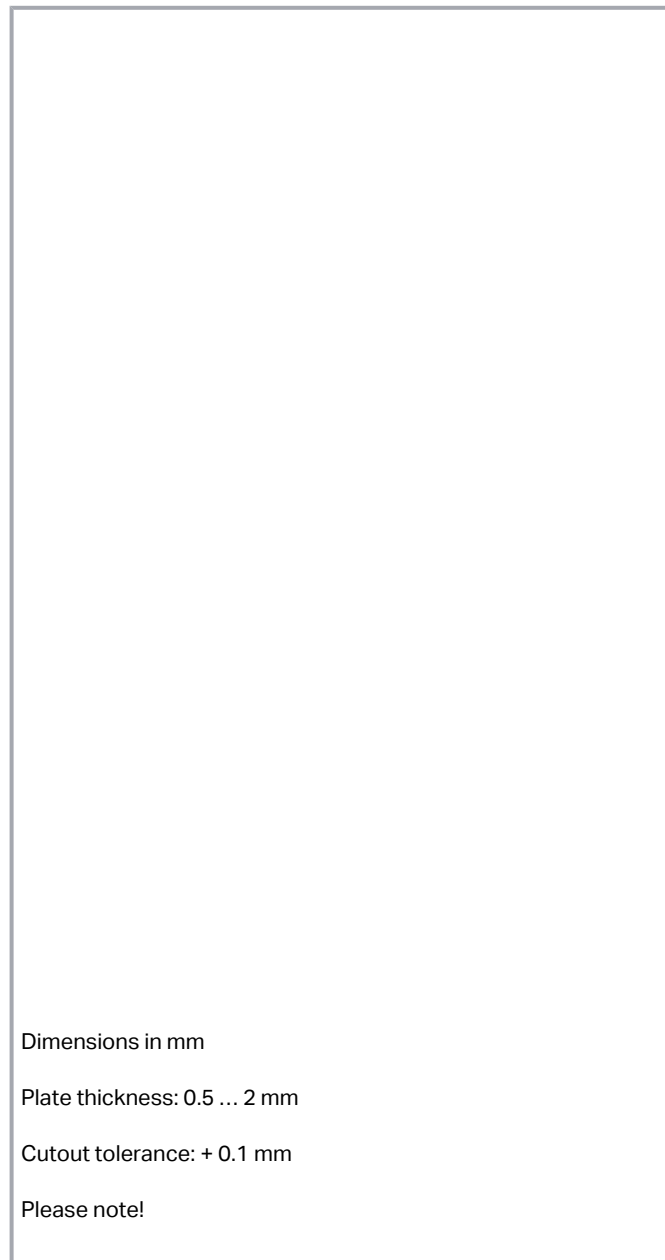
Color:



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

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

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MINI male connector/plug with locking latch. Our pluggable installation connectors with spring pressure connection technology function completely without screw connections. They allow fast,

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efficient, error-free installation in numerous applications. For greater security in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismatching. *WINSTA*® MINI pluggable installation connectors with I coding in blue are above all suitable for easy lighting installation, for example for the dimming of DALI lights. Particularly where space is tight, our smallest pluggable connection system, *WINSTA*® MINI, conveniently displays its strengths. It saves space, and, thanks to Push-in CAGE CLAMP® spring pressure connection technology, it also can be installed quickly, since the connection is low-maintenance and requires no screw connections.

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

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It offers error-free installation of cables and components, quickly and reliably. 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 locking lever from WAGO.

- pluggable installation connectors with protection against mismatching
- easy tool-free operation, a wide range of coding options
- for intelligent, easy lighting installation
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

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). |
|------|--|

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 |

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| | |
|------------------|---|
| Rated current | 16 A |
| Legend (ratings) | (III / 3) $\hat{=}$ 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 | 2 |
| Total number of potentials | 2 |

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 | 2 |
| Conductor entry direction to mating direction | 0° |

Physical data

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|-------------|-----------------------|
| Pin spacing | 4.4 mm / 0.173 inches |
|-------------|-----------------------|

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



| | |
|--------|-------------------------|
| Width | 19.8 mm / 0.78 inches |
| Height | 16 mm / 0.63 inches |
| Depth | 39.85 mm / 1.569 inches |

Mechanical Data

| | |
|---|--|
| Application | DALI, Lighting Management |
| Coding | I |
| Variable coding | No |
| Marking | - ± |
| Potential marking | - ± |
| 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 | IP20; IP40 when mated |

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 | 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 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

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| | |
|-----------------------------|---|
| 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 | 0.158 MJ |
| Weight | 5.2 g |

Environmental requirements

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

Commercial data

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|-----------------------|---------------|
| 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 | 4045454548162 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

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

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
| | CCA | EN 61535 | 71- |

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| | | |
|--|-----------|----------|
| DEKRA Certification B.V. | | 123231 |
| CCA DEKRA Certification B.V. | IEC 61535 | NL-85020 |
| cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |

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 |
|------|---|--------------------------|--------------------------|
| | ABS American Bureau of Shipping | Steel Vessel Rules | 19- HG1869855- PDA |
| | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
| | LR Lloyds Register | EN 61535 | 08/20047 (E2) |

Counterpart

| | |
|---|--|
| Item no.891-8982/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. I; H05VV-F 2 x 1.5 mm ² ; 1 m; 1,50 mm ² ; blue | www.wago.com/891-8982/006-101 |
| Item no.890-1102 Socket; 2-pole; Cod. I; 1,50 mm ² ; blue | www.wago.com/890-1102 |
| Item no.891-8982/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. I; H05VV-F 2 x 1.5 mm ² ; 1 m; 1,50 mm ² ; blue | www.wago.com/891-8982/106-101 |

Optional accessories

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.: 890-382 | www.wago.com/890-382 |

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Operating tool; 2-way; green

Cover

Cover

Item no.: 890-642

Lockout cap; 2-pole; for cutouts; Plastic; black

www.wago.com/890-642**Item no.: 890-692**

Lockout cap; 2-pole; for cutouts; Plastic; white

www.wago.com/890-692**Downloads****Documentation****Bid Text**

| | | | |
|-------------------------|--------------|----------------|----------|
| 890-2112 X81 - Datei | 2019 年2月19 日 | xml 3.0 kB | Download |
| 890-2112 doc - Datei | 2015 年6月8 日 | doc 23.0 kB | Download |

CAD/CAE-Data**CAD data**

| | | | |
|-----------------------|--|-----|----------|
| 2D/3D Models 890-2112 | | URL | Download |
|-----------------------|--|-----|----------|

CAE data

| | | | |
|----------------------------|--|-----|----------|
| EPLAN Data Portal 890-2112 | | URL | Download |
| WSCAD Universe 890-2112 | | URL | Download |
| ZUKEN Portal 890-2112 | | URL | Download |

Environmental Product Compliance**Compliance Search**

| | | | |
|--|--|-----|----------|
| Environmental Product Compliance 890-2112 Snap-in plug; 2-pole; Cod. I; 1,50 mm ² ; blue | | URL | Download |
|--|--|-----|----------|

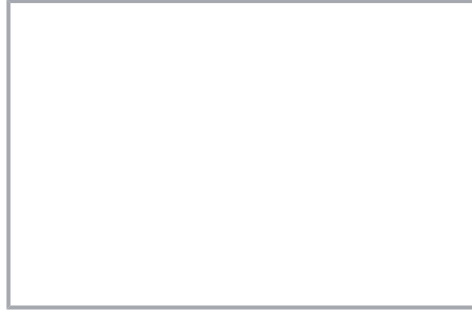
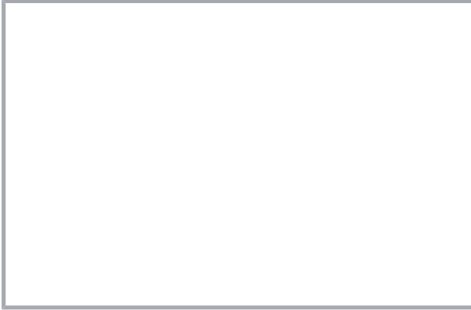
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Installation Notes

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.

Product family

WINSTA® MINI

[Show all products from the family](#)

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