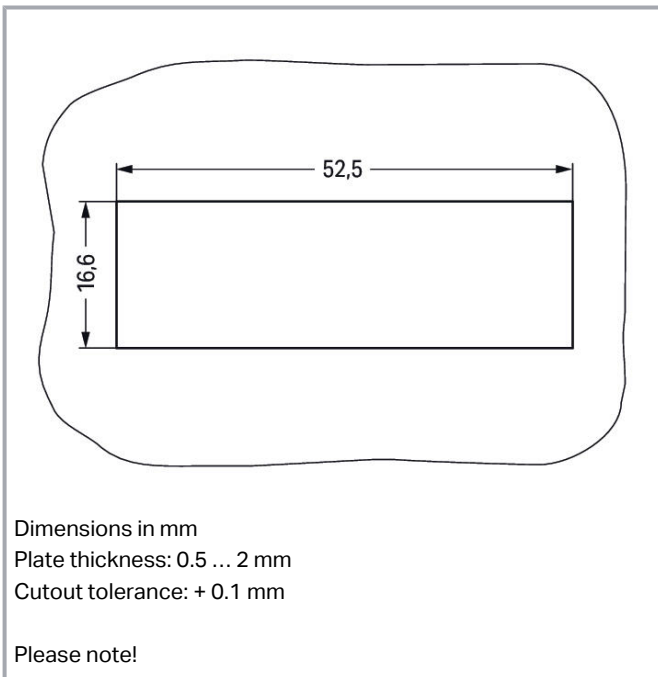
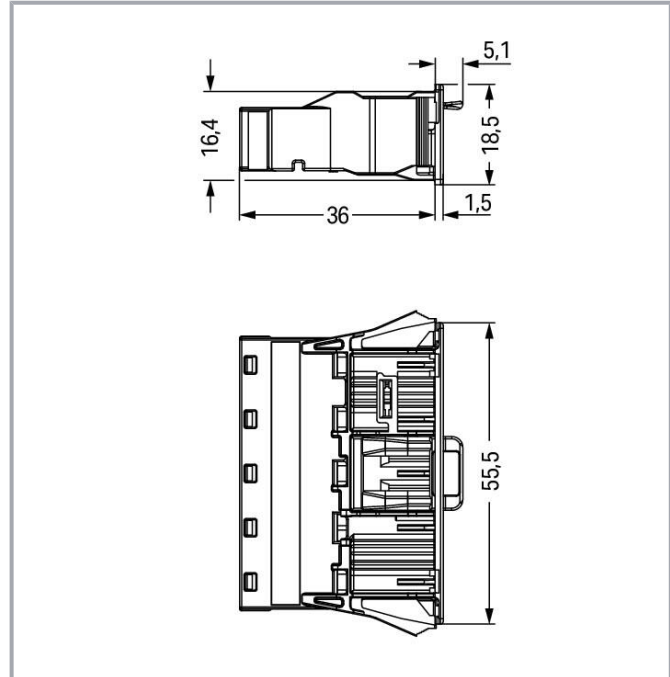
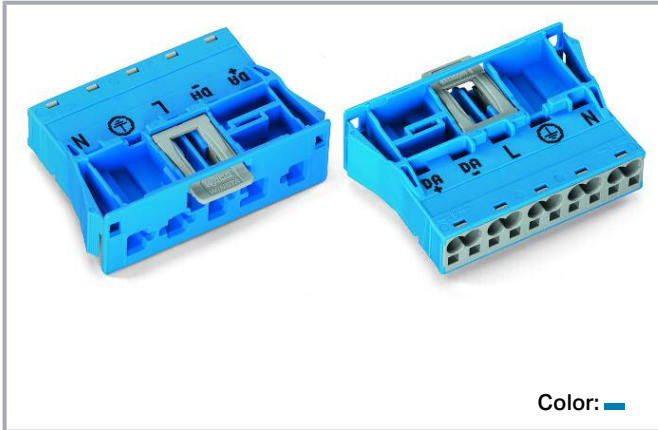


Data sheet | Item number: 770-2115

Snap-in plug; 5-pole; Cod. I; 4,00 mm²; blue

www.wago.com/770-2115



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

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Item description

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

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI male connector/plug 5-pole. WAGO pluggable installation connectors are used when requirements repeat or are planned on a defined pattern, 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. The pluggable installation connector offers touch-proof protection with live components in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). Coding in blue is used to label *WINSTA*® MIDI pluggable installation connectors, which are used above all in building automation for activating lighting. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in a broad range of individual products you can use for quick, easy and maximally flexible electrical installation.

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

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection type IP20 from WAGO.

- protection against mismatching eliminates errors
- simple circuits
- for lighting management
- ready to install and use immediately
- fast, secure installation

Data

Notes

| | |
|------|--|
| Note | <p>The snap-in connectors must be relieved of tensile and transverse forces.</p> <p>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.</p> <p>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).</p> |
|------|--|

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



Electrical data

Ratings per IEC/EN

| | |
|-------------------------------|---|
| Ratings per | IEC/EN 60664-1 |
| Nominal voltage (III/3) | 400 V |
| Rated impulse voltage (III/3) | 6 kV |
| Rated current | 25 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 16 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 | 23 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 | 10 |
| Total number of potentials | 5 |
| PE function | Preceding PE contact |

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 |

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



| | |
|--|------------------------------|
| Fine-stranded conductor; with ferrule; push-in termination | 1.5 mm ² / 16 AWG |
| Strip length | 9 mm / 0.35 inches |
| Pole number | 5 |
| Conductor entry direction to mating direction | 0° |

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 55.5 mm / 2.185 inches |
| Height | 18.5 mm / 0.728 inches |
| Depth | 41.1 mm / 1.618 inches |

Mechanical Data

| | |
|---|---|
| Application | DALI, Lighting Management |
| Coding | I |
| Variable coding | No |
| Marking | DA+ DA- L \perp N |
| Potential marking | DA+ DA- L \perp N |
| 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; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |

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 |

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



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 |
| 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 | 0.54 MJ |
| Weight | 18.6 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 | 27-44-06-02 |
| eCl@ss 9.0 | 27-44-06-02 |
| ETIM 8.0 | EC002566 |
| ETIM 7.0 | EC002566 |
| ECCN | NO DATA |
| PU (SPU) | 50 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4055143375887 |
| Customs tariff number | 85366990990 |

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Environmental Product Compliance

RoHS Compliance Status


Compliant, No Exemption

Approvals / Certificates


General approvals

| Logo | Approval | Additional Approval Text | 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 61535 | 40029808 |

Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|--|------------------------------------|--------------------------|------------------|
|  | ABS American Bureau of Shipping | - | 19-HG1868589-PDA |

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

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DNV GL
Det Norske Veritas, Germanischer Lloyd

-

TAE00001Z6



LR
Lloyds Register

IEC 61984

LR22429487TA

Counterpart



Item no. 770-1105
Socket; 5-pole; Cod. I; 4,00 mm²; blue

www.wago.com/770-1105

Item no. 770-1105/022-000
Socket; with strain relief housing; 5-pole; Cod. I; 4,00 mm²; blue

www.wago.com/770-1105/022-000

Item no. 771-9985/006-101
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. I; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; blue

www.wago.com/771-9985/006-101

Item no. 771-9985/106-101
pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. I; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; blue

www.wago.com/771-9985/106-101

Optional accessories

Tool

Operating tool

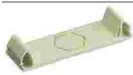


Item no.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Cover

Cover



Item no.: 770-695
Lockout cap; 5-pole; for cutouts; Plastic; white

www.wago.com/770-695

Item no.: 770-645
Lockout cap; 5-pole; for cutouts; Plastic; black

www.wago.com/770-645

Item no.: 770-360
Lockout cap; for plugs; 5-pole; separable; yellow

www.wago.com/770-360

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



Downloads

Documentation

Bid Text

| | | | |
|-------------------------|-------------|----------------|----------|
| 770-2115 X81 - Datei | 2019 Feb 19 | xml 3.0 kB | Download |
| 770-2115 doc - Datei | 2015 Jun 8 | doc 23.6 kB | Download |

CAD/CAE-Data

CAD data

| | | |
|-----------------------|-----|----------|
| 2D/3D Models 770-2115 | URL | Download |
|-----------------------|-----|----------|

CAE data

| | | |
|----------------------------|-----|----------|
| EPLAN Data Portal 770-2115 | URL | Download |
| WSCAD Universe 770-2115 | URL | Download |
| ZUKEN Portal 770-2115 | URL | Download |

Asset Administration Shell

| | | |
|-------------------------------------|-----|----------|
| Asset Administration Shell 770-2115 | URL | Download |
|-------------------------------------|-----|----------|

Environmental Product Compliance

Compliance Search

| | | |
|--|-----|----------|
| Environmental Product Compliance 770-2115 Snap-in plug; 5-pole; Cod. I; 4,00 mm ² ; blue | URL | Download |
|--|-----|----------|

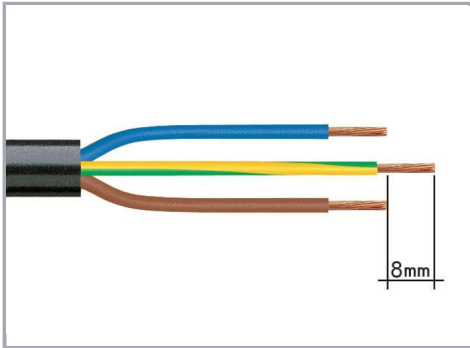
Installation Notes

Conductor termination

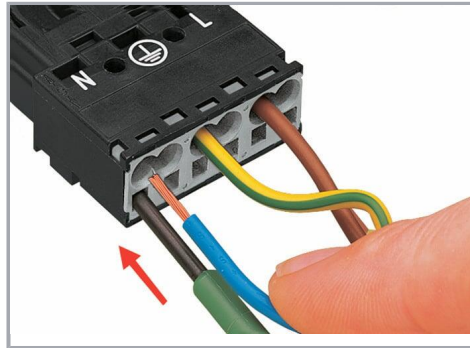
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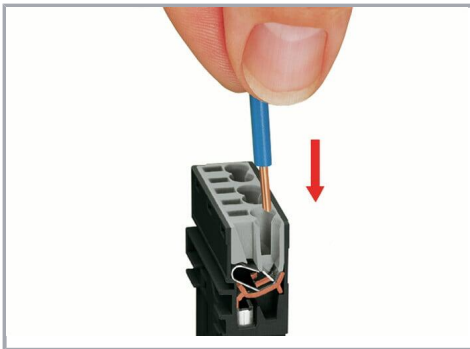
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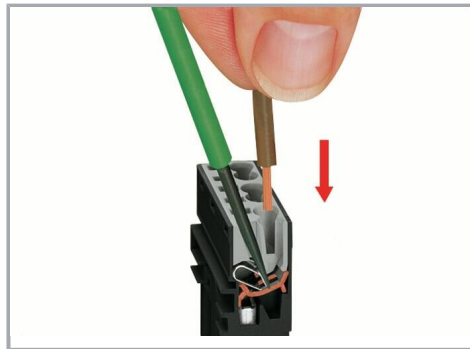
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

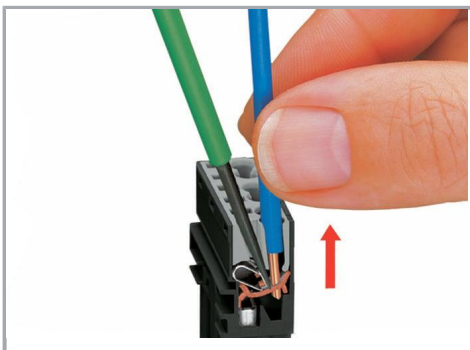


Insert the stripped solid conductor until it hits the backstop.



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.

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

Data sheet | Item number: 770-2115

www.wago.com/770-2115



Seal unused cutout with lockout cap.

Product family

WINSTA® MIDI

[Show all products from the family](#)

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