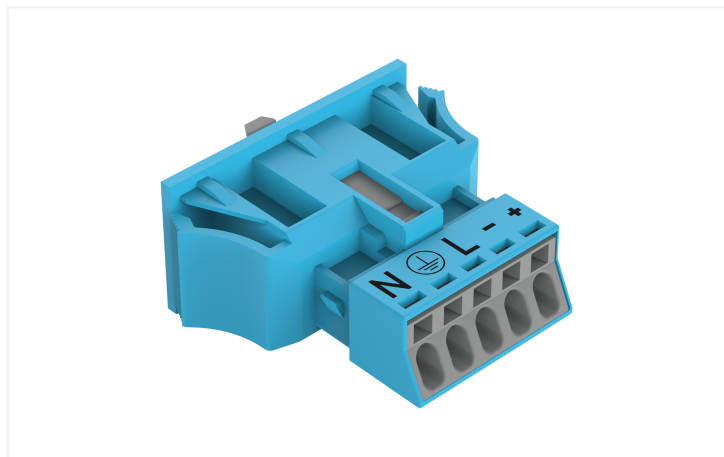
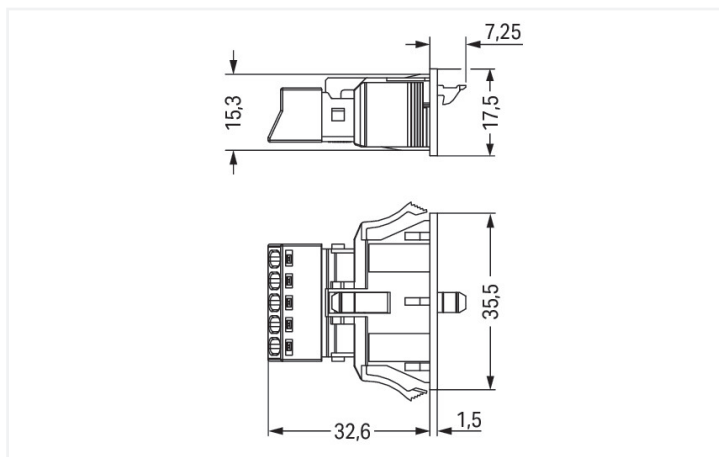
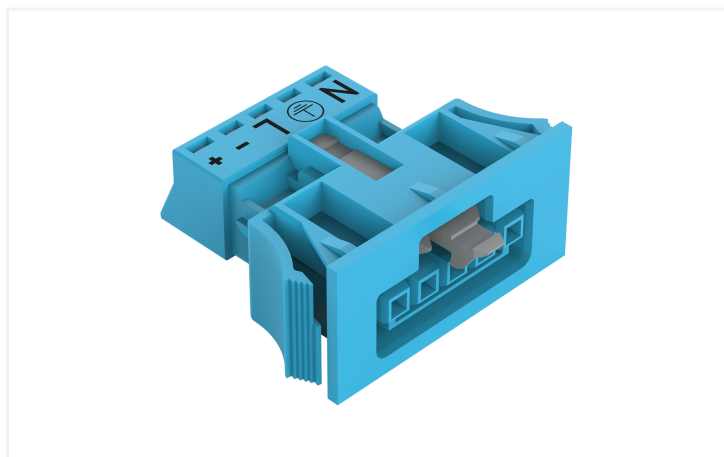
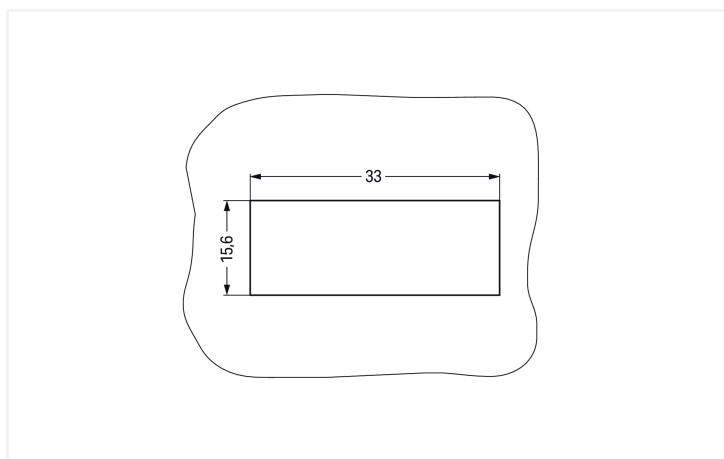




Color: ■ blue



Dimensions in mm



Dimensions in mm  
 Plate thickness: 0.5 ... 2 mm Cutout tolerance: + 0.1 mm Please note!

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

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MINI female connector/socket with locking latch. Our pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow flexible, error-

free installation in a large number of possible uses. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. The pluggable installation connector is protected in accordance with protection type IP40. Users' fingers and tools will never come into contact with live elements. *WINSTA*® MINI pluggable installation connectors with I coding in blue are especially suitable for lighting management, for example for the dimming of DALI lights. Particularly where space is tight, our smallest pluggable connection system, *WINS-TA*® MINI, consistently displays its advantageous properties. It is very compact, and, thanks to Push-in CAGE CLAMP® spring pressure connection technology, it also can be installed quickly, since the installation is low-maintenance and requires no screw connections.

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

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

- protection against mismating eliminates errors
- compact design for conductors with a cross-section up to 1.5 mm²
- with I coding for use in building automation (lighting control)
- ready for immediate use
- convenient installation and commissioning

| Notes                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General safety information | <div><b>NOTICE: Observe installation and safety instructions!</b><ul style="list-style-type: none"><li>• Nur von Elektrofachkraft oder einer für die Tätigkeit elektrisch unterwiesenen Person (EUP nach DIN VDE 0105-100) anzuwenden!</li><li>• Nicht unter Spannung/Last installieren!</li><li>• Nur für bestimmungsgemäßen Gebrauch einsetzen!</li><li>• Nationale Vorschriften/Normen/Richtlinien beachten!</li><li>• Technische Daten der Produkte beachten!</li><li>• Auf die richtige Polbelegung achten!</li><li>• Keine beschädigten/verschmutzten Komponenten verwenden!</li><li>• Leiterarten, -querschnitte, Abisolierlängen und Leitungsdurchmesser beachten!</li><li>• Leiter bis zum Anschlag einführen!</li><li>• Nur mit Verriegelungsklinke und Zugentlastung verwenden!</li><li>• Originalzubehör verwenden!</li></ul></div> |
| Note                       | <div><b>To be sold only with installation instructions!</b><p>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.</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></div>                                                                                                                                                                                                                                                                                                                       |

| Electrical data                 |  |                                                                                          |     |    |               |  |         |  |
|---------------------------------|--|------------------------------------------------------------------------------------------|-----|----|---------------|--|---------|--|
| Ratings per                     |  | IEC/EN 60664-1                                                                           |     |    | Approvals per |  | UL 1977 |  |
| Overvoltage category            |  | III                                                                                      | III | II | Rated voltage |  | 600 V   |  |
| Pollution degree                |  | 3                                                                                        | 2   | 2  | Rated current |  | 12 A    |  |
| Nominal voltage                 |  | 400 V                                                                                    | -   | -  |               |  |         |  |
| Rated impulse withstand voltage |  | 6 kV                                                                                     | -   | -  |               |  |         |  |
| Rated current                   |  | 16 A                                                                                     | -   | -  |               |  |         |  |
|                                 |  |                                                                                          |     |    |               |  |         |  |
| General information             |  |                                                                                          |     |    |               |  |         |  |
| Note on contact resistance      |  | approx. 1 mΩ of contact resistance<br>approx. 0.25 mΩ contact transition plug/<br>socket |     |    |               |  |         |  |

## Connection Data

|                            |   |                                                            |                                   |
|----------------------------|---|------------------------------------------------------------|-----------------------------------|
| Clamping units             | 5 | <b>Connection 1</b>                                        |                                   |
| Total number of potentials | 5 | Connection technology                                      | Push-in CAGE CLAMP®               |
|                            |   | Actuation type                                             | Operating tool<br>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       | 35.5 mm / 1.398 inches  |
| Height      | 17.5 mm / 0.689 inches  |
| Depth       | 39.85 mm / 1.569 inches |

## Mechanical data

|                                         |                                                          |
|-----------------------------------------|----------------------------------------------------------|
| Use                                     | 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                              |
| Housing sheet thickness                 | 0.5 ... 2 mm / 0.02 ... 0.079 inches                     |
| Mounting type                           | Snap-in flange                                           |
| Protection type                         | IP40                                                     |
| Suitable for through-panel applications | Yes                                                      |

## 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:<br>a.) plugging different numbers of poles<br>b.) plugging while rotated 180<br>c.) plugging while laterally staggered<br>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)               | <a href="#">Information on material specifications can be found here</a> |  |
| Color                              | blue                                                                     |  |
| Cover color                        | gray                                                                     |  |
| Material group                     | I                                                                        |  |
| Insulation material (main housing) | 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                          | 0.2 MJ                                                                   |  |
| Weight                             | 9 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)   |  |
| PU (SPU)              | 50 (50) pcs   |  |
| Packaging type        | Box           |  |
| Country of origin     | PL            |  |
| GTIN                  | 4045454885304 |  |
| Customs tariff number | 85366990990   |  |

| Product Classification |                      |  |
|------------------------|----------------------|--|
| UNSPSC                 | 39121409             |  |
| eCl@ss 10.0            | 27-44-06-02          |  |
| eCl@ss 9.0             | 27-44-06-02          |  |
| ETIM 9.0               | EC002566             |  |
| ETIM 10.0              | EC002566             |  |
| ECCN                   | NO US CLASSIFICATION |  |

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

Approvals / Certificates

| General approvals                                                                                                                                                      |           |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|------------------------------------------------------------|----------|------------------|
|   |           |                  | Approval                                                   | Standard | Certificate Name |
| Approval                                                                                                                                                               | Standard  | Certificate Name | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.                                                                                                                                        | EN 61535  | 71-123231        | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.                                                                                                                                        | IEC 61535 | NL-85020         |                                                            |          |                  |
| cURus<br>Underwriters Laboratories<br>Inc.                                                                                                                             | UL 1977   | E45171           |                                                            |          |                  |



Approvals for marine applications



| Approval                                              | Standard           | Certificate Name  |
|-------------------------------------------------------|--------------------|-------------------|
| ABS<br>American Bureau of Ship-<br>ping               | Steel Vessel Rules | 24-0095973-PDA    |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd | -                  | TAE00001Z6        |
| LR<br>Lloyds Register                                 | EN 61535           | 08/20047 (E2)     |
| PRS<br>Polski Rejestr Statków                         | -                  | TE/1096/880590/23 |

Downloads

Environmental Product Compliance

| Compliance Search                            |
|----------------------------------------------|
| Environmental Product<br>Compliance 890-2105 |



Documentation

| Bid Text |            |                 |  |
|----------|------------|-----------------|--|
| 890-2105 | 19.02.2019 | xml<br>2.89 KB  |  |
| 890-2105 | 08.06.2015 | doc<br>23.00 KB |  |

CAD/CAE-Data

| CAD data                 |
|--------------------------|
| 2D/3D Models<br>890-2105 |



| CAE data                      |
|-------------------------------|
| EPLAN Data Portal<br>890-2105 |
| WSCAD Universe<br>890-2105    |
| ZUKEN Portal<br>890-2105      |



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 Male connector/plug



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

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



**Item No.: 770-643**  
Lockout cap; 3-pole; for cutouts; Plastic;  
black



**Item No.: 770-693**  
Lockout cap; 3-pole; for cutouts; Plastic;  
white

1.2.2 Tool

1.2.2.1 Operating tool



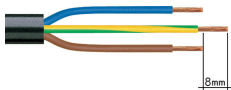
**Item No.: 890-385**  
Operating tool; 5-way; green



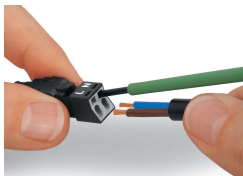
**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a  
partially insulated shaft

Installation Notes

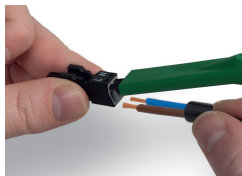
Conductor termination



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.

