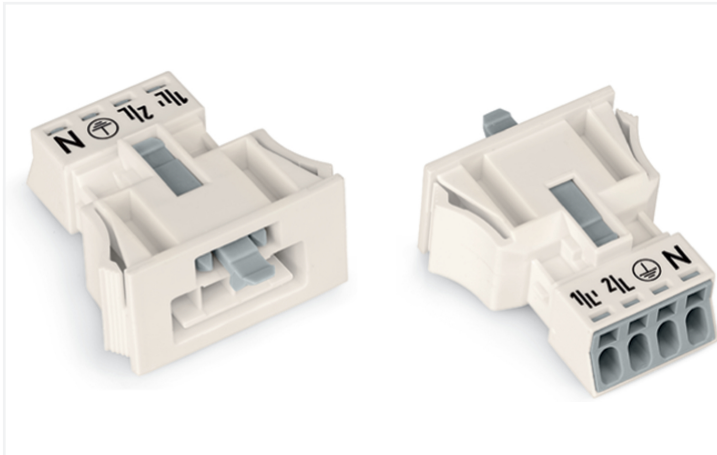


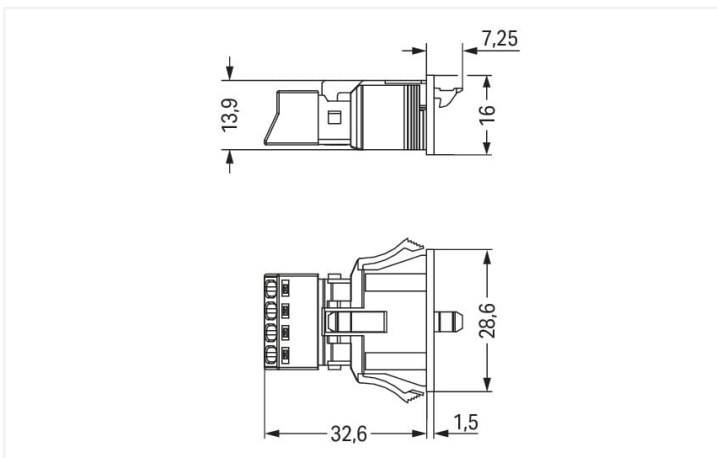
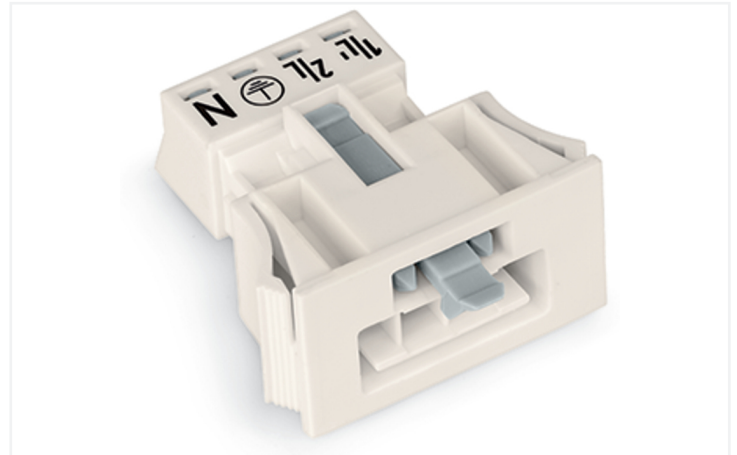
## Data Sheet | Item Number: 890-734

Snap-in plug; 4-pole; Cod. A; 1,50 mm<sup>2</sup>; white

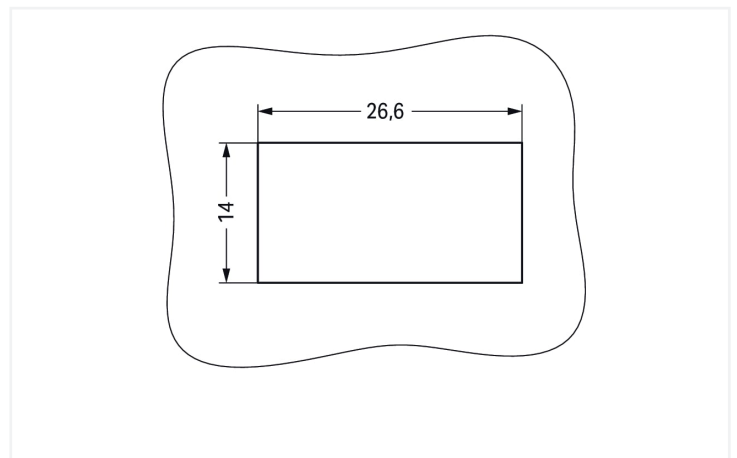
<https://www.wago.com/890-734>



Color: ■ white



Dimensions in mm



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

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

The WINSTA® MINI male connector/plug A coding is the pluggable solution for your use in control cabinets, on PCBs or for lighting connections. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to a huge variety of requirements in next to no time. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. General mains applications for almost any domain of use can be implemented with WINSTA® MINI pluggable installation connectors with A coding. Due to its particularly small dimensions, our WINSTA® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is very suitable in very tight spaces, i.e., for connections when very little room is available.

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

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with locking lever from WAGO.

- effective protection against mismatching
- compact design for conductors with a cross-section up to 1.5 mm<sup>2</sup>
- for any mains application
- ready for immediate use
- fast, secure installation

| Notes |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note  | The snap-in connectors must be relieved of tensile and transverse forces.<br>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.<br>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 60664-1 |     |    |
| Overvoltage category |  | III            | III | II |
| Pollution degree     |  | 3              | 2   | 2  |
| Nominal voltage      |  | 400 V          | -   | -  |
| Rated surge voltage  |  | 6 kV           | -   | -  |
| Rated current        |  | 16 A           | -   | -  |

| Approvals per |  | UL 1977 |
|---------------|--|---------|
| Rated voltage |  | 600 V   |
| Rated current |  | 12 A    |

| General information        |                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------|
| Note on contact resistance | approx. 1 mΩ of contact resistance<br>approx. 0.25 mΩ contact transition plug/ socket |

| Connection data            |                      |  |
|----------------------------|----------------------|--|
| Clamping units             | 4                    |  |
| Total number of potentials | 4                    |  |
| PE function                | Preceding PE contact |  |

| Connection 1                                               |                                   |
|------------------------------------------------------------|-----------------------------------|
| 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                                                | 4                                 |
| Conductor entry direction to mating direction              | 0 °                               |

| Physical data |                         |
|---------------|-------------------------|
| Pin spacing   | 4.4 mm / 0.173 inches   |
| Width         | 28.6 mm / 1.126 inches  |
| Height        | 16 mm / 0.63 inches     |
| Depth         | 39.85 mm / 1.569 inches |

## Mechanical data

|                                         |                                                          |
|-----------------------------------------|----------------------------------------------------------|
| Use                                     | General mains applications                               |
| Coding                                  | A                                                        |
| Variable coding                         | No                                                       |
| Marking                                 | 1/L' 2/L ⊕ N                                             |
| Potential marking                       | 1/L' 2/L ⊕ 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; 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 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                              | white                                                                    |
| 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                          | 0.177 MJ                                                                 |
| Weight                             | 8.1 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 9.0              | EC002566      |  |
| ETIM 8.0              | EC002566      |  |
| PU (SPU)              | 50 (50) pcs   |  |
| Packaging type        | Box           |  |
| Country of origin     | PL            |  |
| GTIN                  | 4045454233556 |  |
| Customs tariff number | 85366990990   |  |

| 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 Conformity<br>WAGO GmbH & Co. KG         |          |                  |
| CCA<br>DEKRA Certification B.V.                                                  | EN 61535  | 71-123231        | UK-Declaration of Conformity<br>WAGO GmbH & Co. KG         |          |                  |
| CCA<br>DEKRA Certification B.V.                                                  | IEC 61535 | NL-85020         |                                                            |          |                  |
| cURus<br>Underwriters Laboratories Inc.                                          | UL 1977   | E45171           |                                                            |          |                  |

Approvals for marine applications

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



Downloads

Environmental Product Compliance

|                                          |  |  |  |
|------------------------------------------|--|--|--|
| Compliance Search                        |  |  |  |
| Environmental Product Compliance 890-734 |  |  |  |

Documentation

|          |            |                 |  |
|----------|------------|-----------------|--|
| Bid Text |            |                 |  |
| 890-734  | 19.02.2019 | xml<br>2.89 KB  |  |
| 890-734  | 08.06.2015 | doc<br>23.00 KB |  |

CAD/CAE-Data

|                      |  |
|----------------------|--|
| CAD data             |  |
| 2D/3D Models 890-734 |  |

|                           |  |
|---------------------------|--|
| CAE data                  |  |
| EPLAN Data Portal 890-734 |  |
| WSCAD Universe 890-734    |  |
| ZUKEN Portal 890-734      |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



[Item No.: 891-8994/106-102](#)  
pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white



[Item No.: 891-8994/006-102](#)  
pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white

1.1.2 Female connector/socket



[Item No.: 890-224](#)  
Socket; 4-pole; Cod. A; 1,50 mm²; white



[Item No.: 890-124](#)  
Socket; with strain relief housing; 4-pole; Cod. A; 1,50 mm²; white

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



**Item No.: 890-644**  
Lockout cap; 4-pole; for cutouts; Plastic; black



**Item No.: 890-694**  
Lockout cap; 4-pole; for cutouts; Plastic; white

1.2.2 Tool

1.2.2.1 Operating tool



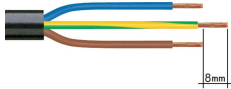
**Item No.: 890-384**  
Operating tool; 4-way; green



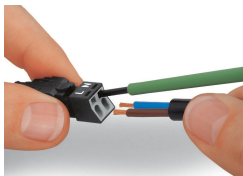
**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

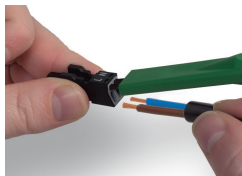
Conductor termination



- 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.

