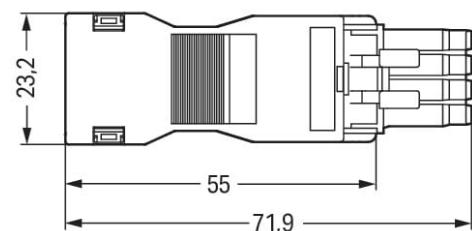
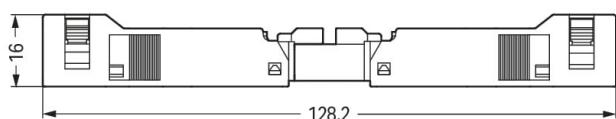


Color: white



Dimensions in mm



Dimensions in mm

Overall length when mated

## Female connector/socket WINSTA® MINI 4-pole

The WINSTA® MINI female connector/socket 4-pole supports rapid, correct installation. Our pluggable installation connectors with spring pressure connection technology work entirely without screw connections. They allow flexible, error-free installation in numerous applications. The coding options reduce installation errors, allowing fast, secure wiring of all components. The pluggable installation connector is protected against ingress by solid granular objects with a diameter of less than 1 mm in accordance with protection type IP40. The WINSTA® MINI pluggable installation connector with A coding in black or white is usually used for general mains applications in power distribution. Especially where space is tight, our smallest pluggable connection system, WINSTA® MINI, consistently displays its advantages. It is very compact, and, with Push-in CAGE CLAMP® spring pressure connection technology, it also saves time, since the connection is low-maintenance and can be performed without screw connections. The strip length is 45 mm.

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

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with strain relief hosting from WAGO.

- effective protection against mismatching
- easy tool-free operation, a wide range of coding options
- with A coding for a large number of applications
- flexible installation to save space
- quick replacement of defective units during ongoing operation

## This item includes:

	
<p><a href="#">Item No.: 890-224</a> 1</p> <p>Socket; 4-pole; Cod. A; 1,50 mm<sup>2</sup>; white</p>	<p><a href="#">Item No.: 890-514</a> 1</p> <p>Strain relief housing; 4-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; white</p>

## 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 surge voltage	6 kV	-	-		
Rated current	16 A	-	-		

## General information

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
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## Connection data

Clamping units	4	Connection 1
Total number of potentials	4	Connection technology
		Push-in CAGE CLAMP®
		Actuation type
		Operating tool Push-in
		Nominal cross-section
		1.5 mm <sup>2</sup> / 16 AWG
		Solid conductor
		0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
		Solid conductor; push-in termination
		0.75 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
		Stranded conductor
		0.25 ... 1 mm <sup>2</sup> / 22 ... 18 AWG
		Fine-stranded conductor
		0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
		Fine-stranded conductor; with insulated ferrule
		0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG
		Fine-stranded conductor; with uninsulated ferrule
		0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG

**Connection 1**

Fine-stranded conductor; with ferrule; push-in termination      0.75 mm<sup>2</sup> / 20 AWG

Strip length      9 mm / 0.35 inches

Pole number      4

Connectable sheathed cable diameter      6.5 ... 10.5 mm

Conductor entry direction to mating direction      0 °

Strip length (outer insulation)      45 mm

**Physical data**

Pin spacing      4.4 mm / 0.173 inches

Width      23.2 mm / 0.913 inches

Height      16 mm / 0.63 inches

Depth      71.9 mm / 2.831 inches

**Mechanical data**

Use      General mains applications

Coding      A

Variable coding      No

Marking      N ⊕ 2/L 1/L'

Potential marking      N ⊕ 2/L 1/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

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      Can be retrofitted

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).

Strain relief      Strain relief housing

**Material data**

Note (material data)

[Information on material specifications can be found here](#)

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      0.29 MJ

**Material data**

Connector color	white
Strain relief color	white
Weight	10.6 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	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 9.0	EC002560
ETIM 8.0	EC002560
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454232979
Customs tariff number	85366990990

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates****General approvals**

Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61535	71-123231
CCA DEKRA Certification B.V.	IEC 61535	NL-85020
cURus Underwriters Laboratories Inc.	UL 1977	E45171

**Declarations of conformity and manufacturer's declarations**

Approval	Standard	Certificate Name
EU-Declaration of Conformity	-	-
WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity	-	-
WAGO GmbH & Co. KG	-	-

**Approvals for marine applications**

Approval	Standard	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)

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product  
Compliance 890-124



## Documentation

#### Bid Text

890-124 19.02.2019 xml 3.00 KB



890-124 08.06.2015 doc 23.00 KB



## CAD/CAE-Data

#### CAD data

2D/3D Models 890-124



#### CAE data

WSCAD Universe  
890-124



ZUKEN Portal 890-124



## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Cable assembly



##### [Item No.: 891-8994/206-102](#)

pre-assembled connecting cable; Eca;  
Plug/open-ended; 4-pole; Cod. A; H05VV-  
F 4G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white

##### [Item No.: 891-8994/006-102](#)

pre-assembled interconnecting cable;  
Eca; Socket/plug; 4-pole; Cod. A; H05VV-  
F 4G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white

#### 1.1.2 Distribution connector



##### [Item No.: 890-994](#)

h-distribution connector; 4-pole; Cod. A; 1  
input; 2 outputs; outputs on one side; 2  
locking levers; white



##### [Item No.: 890-995](#)

h-distribution connector; 4-pole; Cod. A;  
1 input; 2 outputs; outputs on one side; 3  
locking levers; for flying leads; white



##### [Item No.: 890-676](#)

T-distribution connector; 4-pole; Cod. A;  
1 input; 2 outputs; 2 locking levers; white



##### [Item No.: 890-677](#)

T-distribution connector; 4-pole; Cod. A; 1  
input; 2 outputs; 3 locking levers; for flying  
leads; white

#### 1.1.3 Male connector/plug



##### [Item No.: 890-834/011-000](#)

Plug for PCBs; angled; 4-pole; Cod. A; white



##### [Item No.: 890-834](#)

Plug for PCBs; straight; 4-pole; Cod. A;  
white



##### [Item No.: 890-234](#)

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



##### [Item No.: 890-134](#)

Plug; with strain relief housing; 4-pole;  
1,50 mm<sup>2</sup>; white



##### [Item No.: 890-734](#)

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

## 1.2 Required Accessories

### 1.2.1 Locking system



#### [Item No.: 890-111](#)

Locking lever; for flying leads; for tool operation; black

#### [Item No.: 890-131](#)

Locking lever; for flying leads; for tool operation; white

#### [Item No.: 890-101](#)

Locking lever; for manual operation; black

#### [Item No.: 890-121](#)

Locking lever; for manual operation; white

## 1.3 Optional Accessories

### 1.3.1 Cover



#### [Item No.: 897-2003](#)

Protective cap; Type2; for sockets and plugs; PVC; red

### 1.3.2 Installation

#### 1.3.2.1 Mounting accessories



#### [Item No.: 890-310](#)

Mounting carrier; 2- to 5-pole; for flying leads; black

#### [Item No.: 890-311](#)

Mounting carrier; 2- to 5-pole; for flying leads; white

### 1.3.3 Shield termination

#### 1.3.3.1 Shield termination



#### [Item No.: 890-524](#)

Shield connecting plate; 4-pole; for sockets

## 1.3.4 Tool

### 1.3.4.1 Operating tool



#### [Item No.: 890-384](#)

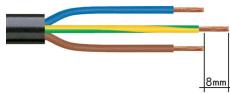
Operating tool; 4-way; green

#### [Item No.: 210-719](#)

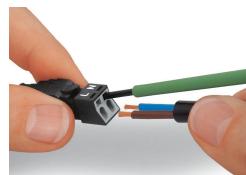
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

## Installation Notes

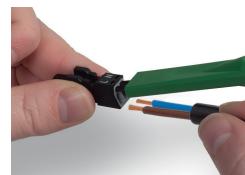
## Conductor termination



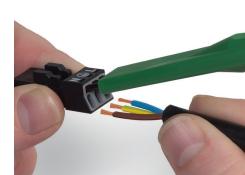
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.



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.

## Installation



Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.



Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.



Latch the top of the strain relief housing.



The printed marking of the connector is clearly visible in the openings of the strain relief housing.

## Shield termination



Connector with shield termination



Apply the shield to the sheathed cable.

Strip length, outer insulation = 30 mm  
Shield length = 8 mm



Push the shield connecting plate into the connector until fully inserted.



First insert the wired connector into strain relief housing, then snap clamp and cover.