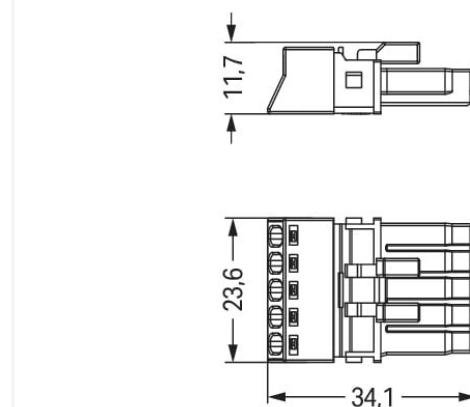


Color: ■ pink



Dimensions in mm

Female connector/socket W/INSTA® MINI 5-pole

For power and signal transmission: The W/INSTA® MINI female connector/socket rated current 16 A. WAGO pluggable installation connectors are used when requirements repeat or are distributed on a specified pattern, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. Solutions like the W/INSTA® MINI pluggable installation connectors with B coding are suitable for applications involving process control, for example, for lighting or in data networks. Due to its particularly minimal dimensions, our W/INSTA® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is very suitable in very restricted spaces, i.e., for installations when very little room is available.

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

The W/INSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Choose quality and durability – with protection type IP20 from WAGO makes the electrical installation of electrical components visibly easier.

- effective protection against mismatching
- easy tool-free operation, a wide range of coding options
- with B coding for use in process automation, such as lighting technology, for instance
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

Notes

Variants:

Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Electrical data

Ratings per IEC/EN 60664-1		
Overvoltage category	III	III
Pollution degree	3	2
Nominal voltage	400 V	-
Rated surge voltage	6 kV	-
Rated current	16 A	-

Ratings per IEC/EN – Notes		
Rated current (note)	13 A for 3-pole load	10 A for 4- and 5-pole load

Approvals per	UL 1977	General information
Rated voltage	600 V	Note on contact resistance approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket
Rated current	12 A	

Connection data		Connection 1
Clamping units	5	Connection technology Push-in CAGE CLAMP®
Total number of potentials	5	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 5
		Conductor entry direction to mating direction 0 °

Physical data	
Pin spacing	4.4 mm / 0.173 inches
Width	23.6 mm / 0.929 inches
Height	11.7 mm / 0.461 inches
Depth	34.1 mm / 1.343 inches

Mechanical data	
Use	Control technology
Coding	B
Variable coding	No
Marking	1 2 3 4 5
Potential marking	1 2 3 4 5
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	IP20; IP40 with strain relief housing

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).

Material data

Note (material data)	Information on material specifications can be found here
Color	pink
Cover color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact Plating	Tin
Fire load	0.044 MJ
Weight	5.9 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)
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	PL
GTIN	4055143499705
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	EN 61984	NL-64351
CB DEKRA Certification B.V.	EN 61984	71-112993
cURus Underwriters Laboratories Inc.	UL 1977	E45171
KEMA/KEUR DEKRA Certification B.V.	EN 60320	2148952.04

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



Approval	Standard	Certificate Name
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 890-285

Documentation

Bid Text

890-285	19.02.2019	xml 2.94 KB	
890-285	08.06.2015	doc 23.50 KB	

CAD/CAE-Data

CAD data

2D/3D Models 890-285



CAE data

ZUKEN Portal 890-285



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly

[Item No.: 891-8995/205-107](#)pre-assembled connecting cable; Eca;
Plug/open-ended; 5-pole; Cod. B; (H)
05VV-F 5x1,0 mm²; 1 m; 1,00 mm²; pink[Item No.: 891-8995/005-107](#)pre-assembled interconnecting cable;
Eca; Socket/plug; 5-pole; Cod. B; (H)05VV-
F 5x1,0 mm²; 1 m; 1,00 mm²; pink

1.1.2 Male connector/plug

[Item No.: 890-895/011-000](#)

Plug for PCBs; angled; 5-pole; Cod. B; pink

[Item No.: 890-895](#)Plug for PCBs; straight; 5-pole; Cod. B;
pink[Item No.: 890-295](#)Plug; 5-pole; Cod. B; 1,50 mm²; pink[Item No.: 890-795](#)Snap-in plug; 5-pole; Cod. B; 1,50 mm²;
pink

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 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

1.2.2 Strain relief

1.2.2.1 Strain relief housing

[Item No.: 890-505](#)Strain relief housing; 5-pole; with locking
clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm;
black[Item No.: 890-515](#)Strain relief housing; 5-pole; with locking
clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm;
white

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 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 Tool

1.3.3.1 Operating tool



[Item No.: 890-385](#)

Operating tool; 5-way; green

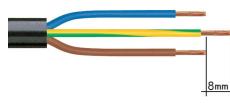


[Item No.: 210-719](#)

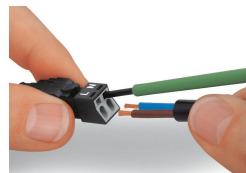
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

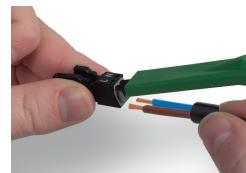
Conductor termination



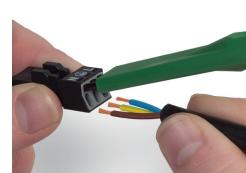
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.



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.



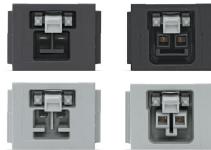
Latch the top of the strain relief housing.

Installation



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

Mismating protection



B-coded connectors with different colors can be plugged together.

Important note:

Different colors and/or pole markings are used for circuit identification.
Only connectors of the same color and same pole marking must be plugged together.

B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.