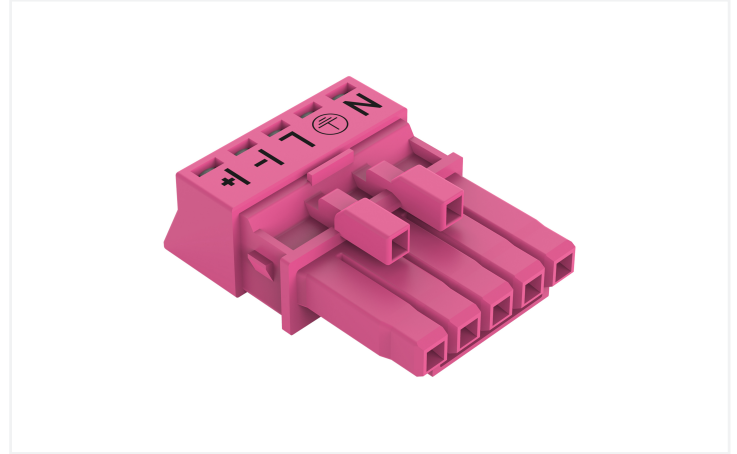


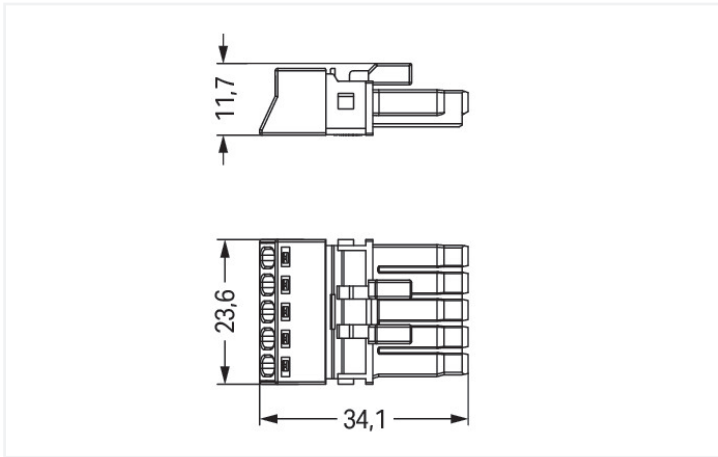
Data Sheet | Item Number: 890-285/080-000

Socket; 5-pole; Cod. B; 1,50 mm²; pink

<https://www.wago.com/890-285/080-000>



Color: ■ pink



Dimensions in mm

Female connector/socket WINSTA® MINI with protection against mismatching

The WINSTA® MINI female connector/socket with protection type IP20 supports rapid, correct installation. Our pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow flexible, error-free installation in numerous possible uses. The coding options reduce installation errors, allowing fast, secure wiring of all components. B coding enables the WINSTA® MINI pluggable installation connectors to be used for control in applications in the domains of automation, robotics, and mechanical engineering. Due to its particularly compact dimensions, our WINSTA® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is especially suitable in very tight spaces, i.e., for connections when very little room is available.

Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MINI

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Choose durability and quality – with marking from WAGO makes the installation of electrical components substantially easier.

- effective protection against mismatching
- compact design for conductors with a cross-section up to 1.5 mm²
- with B coding for use in process automation, such as lighting technology, for instance
- ready for immediate use
- convenient installation and commissioning



Notes	
General safety information	NOTICE: Observe installation and safety instructions! • Nur von Elektrofachkraft oder einer für die Tätigkeit elektrisch unterwiesenen Person (EUP nach DIN VDE 0105-100) anzuwenden! • Nicht unter Spannung/Last installieren! • Nur für bestimmungsgemäßen Gebrauch einsetzen! • Nationale Vorschriften/Normen/Richtlinien beachten! • Technische Daten der Produkte beachten! • Auf die richtige Polbelegung achten! • Keine beschädigten/verschmutzten Komponenten verwenden! • Leiterarten, -querschnitte, Abisolierlängen und Leitungsdurchmesser beachten! • Leiter bis zum Anschlag einführen! • Nur mit Verriegelungsklinke und Zugentlastung verwenden! • Originalzubehör verwenden! To be sold only with installation instructions! Other pole markings Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/.
Variants:	

Electrical data					
Ratings per		IEC/EN 60664-1		Ratings per IEC/EN – Notes	
Overvoltage category		III	III	II	
Pollution degree		3	2	2	
Nominal voltage		400 V	-	-	
Rated impulse withstand voltage		6 kV	-	-	
Rated current		16 A	-	-	
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				
Clamping units	5		Connection 1	
Total number of potentials	5		Connection technology	Push-in CAGE CLAMP®
			Actuation type	Operating tool 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	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	N ⊕ L I- I+
Potential marking	N ⊕ L I- I+
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	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact Plating	Tin
Fire load	0.024 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	
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143500142
Customs tariff number	85366990990

Product Classification	
UNSPSC	39121409
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 9.0	EC002560
ETIM 10.0	EC002560
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
CB DEKRA Certification B.V.	EN 61984	NL-64351
CB DEKRA Certification B.V.	EN 61984	71-112993
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
LR Lloyds Register	EN 61535	LR23317167TA



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 890-285/080-000			

Documentation

Bid Text			
890-285/080-000	19.02.2019	xml 2.97 KB	
890-285/080-000	08.06.2015	doc 24.50 KB	

CAD/CAE-Data

CAD data	
2D/3D Models 890-285/080-000	

CAE data	
ZUKEN Portal 890-285/080-000	

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



Item No.: 890-295/080-000 Plug; 5-pole; 1,50 mm ² ; pink
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Item No.: 890-795/080-000 Snap-in plug; 5-pole; Cod. B; 1,50 mm ² ; pink
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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



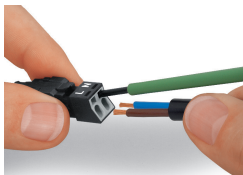
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

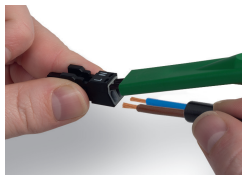
Conductor termination



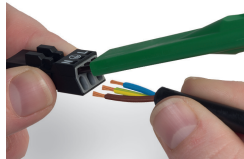
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

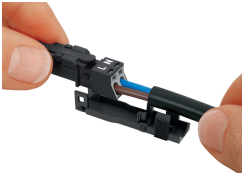


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



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.

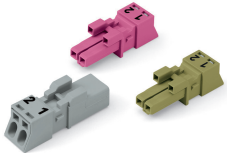


Latch the top of the strain relief housing.



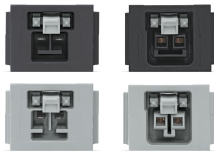
The printed marking of the connector is clearly visible in the openings of the strain relief housing.

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.

