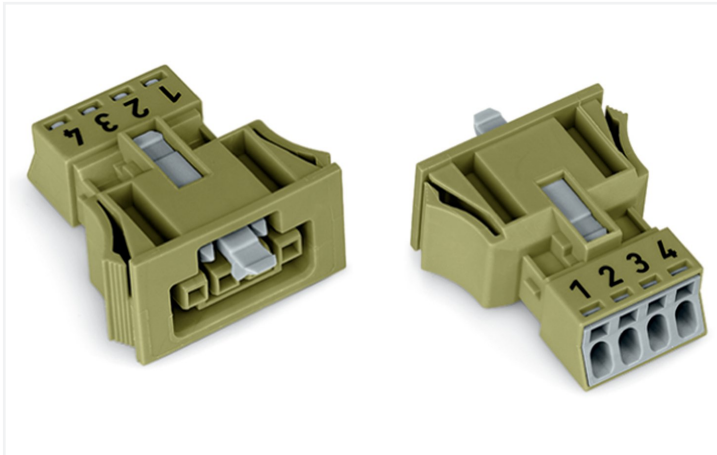


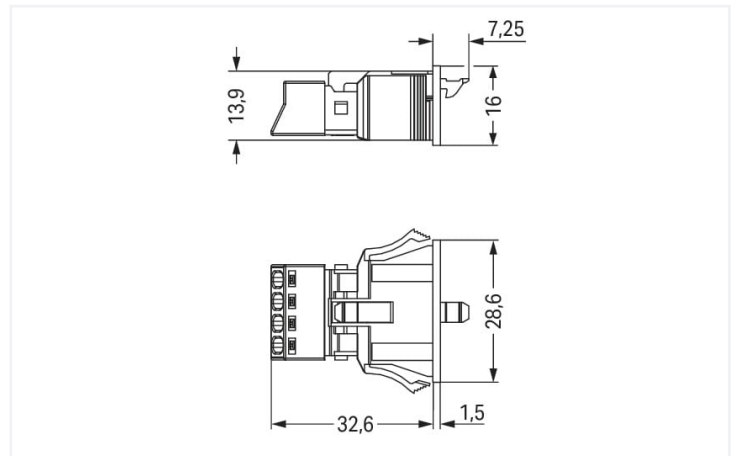
Data Sheet | Item Number: 890-764

Snap-in socket; 4-pole; Cod. B; 1,50 mm²; light green

<https://www.wago.com/890-764>



Color: ■ light green



Dimensions in mm

Female connector/socket *WINSTA*® MINI with protection type IP40

The *WINSTA*® MINI female connector/socket with locking latch supports rapid, correct installation. WAGO pluggable installation connectors can be used when specifications repeat or are distributed on a defined grid, for example for installing grid lighting or flush-mount lighting. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. The pluggable installation connector is protected in accordance with protection type IP40. Users' hands and tools will never come into contact with live elements. B coding enables the *WINSTA*® MINI pluggable installation connectors to be used for application control in the domains of automation, robotics, and mechanical engineering. *WINSTA*® MINI follows the trend towards miniaturisation. Our smallest pluggable connection system is especially suitable for lights, for instance, since as a result of LED technology; due to complex systems, these offer less and less space for the connection technology.

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 significantly reduces the need for servicing and lowers costs. Choose quality and durability – with marking from WAGO makes the installation of electrical components significantly easier.

- effective protection against mismatching
- compact design for conductors with a cross-section up to 1.5 mm²
- with B coding for controllers, for example lighting fixtures and sun blinds
- flexible installation to save space
- quick replacement of defective units during ongoing operation



Notes	
Note	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. 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).
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	II
Pollution degree		3	2	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-pole load		
Approvals per		UL 1977		
Rated voltage		600 V		
Rated current		12 A		
General information		Note on contact resistance		
		approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket		

Connection data		
Clamping units	4	Connection 1 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 4 Conductor entry direction to mating direction 0 °
Total number of potentials	4	

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	Control technology
Coding	B
Variable coding	No
Marking	1 2 3 4
Potential marking	1 2 3 4
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

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	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)	Information on material specifications can be found here
Color	light green
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	0.047 MJ
Weight	7.4 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	4055143427920	
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
CB DEKRA Certification B.V.	IEC 61984	NL-64351	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CB DEKRA Certification B.V.	EN 61984	71-112993	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
cURus Underwriters Laboratories Inc.	UL 1977	E45171			
KEMA/KEUR DEKRA Certification B.V.	EN 60320	2148952.04			

Approvals for marine applications

 		
Approval	Standard	Certificate Name
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	EN 61535	08/20047 (E2)



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-764

↓

Documentation

Bid Text			
890-764	19.02.2019	xml 2.92 KB	↓
890-764	30.11.2018	doc 23.00 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models 890-764

↓

CAE data

EPLAN Data Portal 890-764

↓

WSCAD Universe 890-764

↓

ZUKEN Portal 890-764

↓

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



[Item No.: 891-8994/205-105](#)
pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm²; 1 m; 1,00 mm²; light green



[Item No.: 891-8994/005-105](#)
pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. B; Control cable 4 x 1.0 mm²; 1 m; 1,00 mm²; light green

1.1.2 Male connector/plug

[Item No.: 890-274](#)
Plug; 4-pole; 1,50 mm²; light green

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



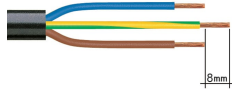
Item No.: 890-384
Operating tool; 4-way; green



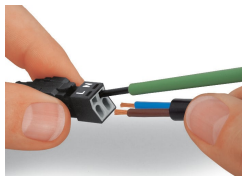
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

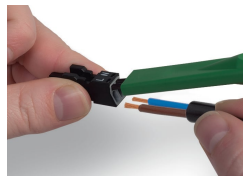
Conductor termination



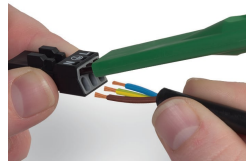
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

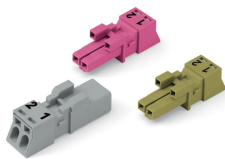


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



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.

Mismatching 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.

