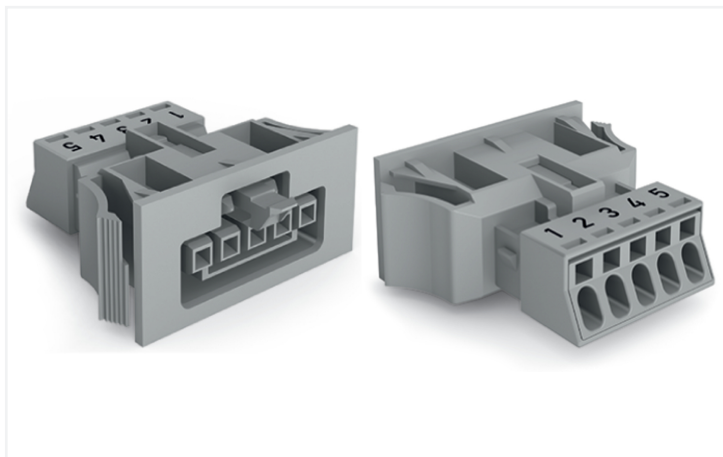
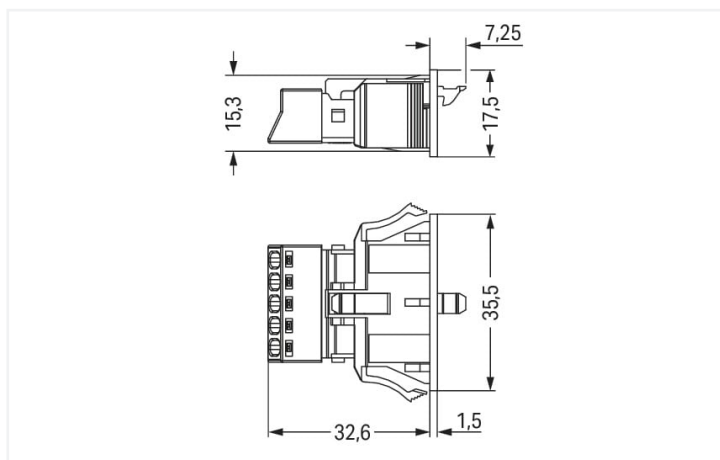
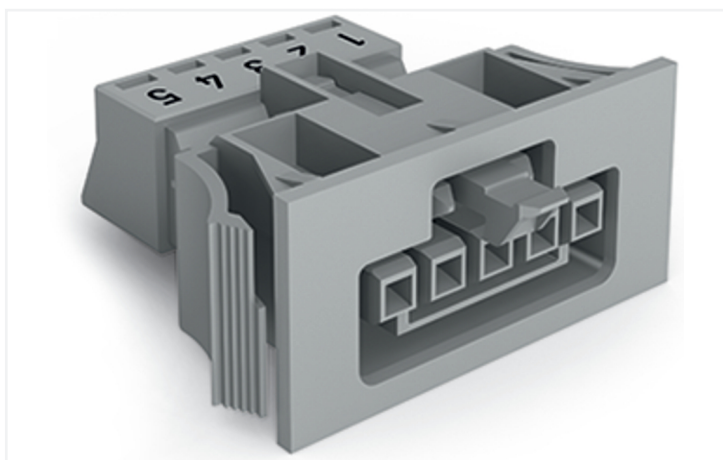
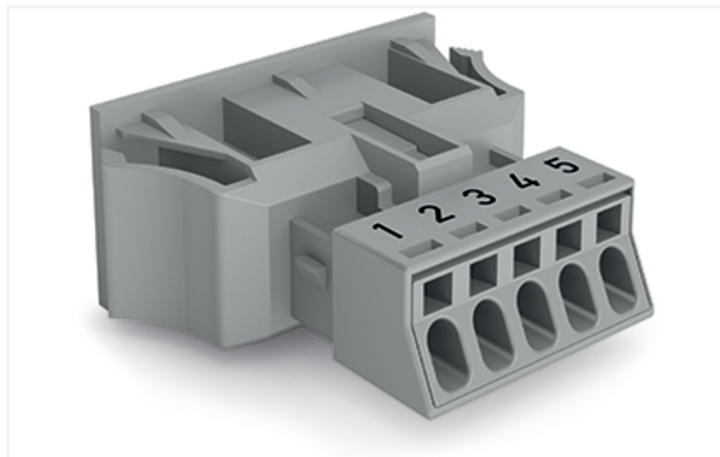
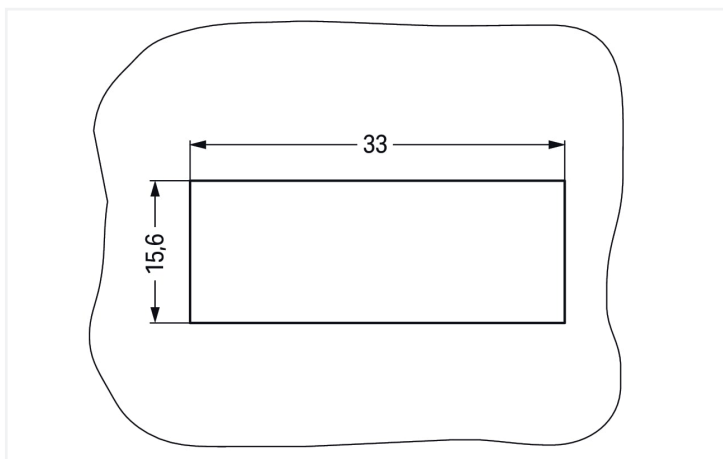




Color: ■ gray



Dimensions in mm



Dimensions in mm
Plate thickness: 0.5 ... 2 mm
Cutout tolerance: + 0.1 mm

Please note!



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

The *WINSTA*® MINI female connector/socket 5-pole is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. WAGO pluggable installation connectors are useful when requirements repeat or are planned on a specific grid, for example for installing grid lighting or flush-mount lighting. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismatching. The pluggable installation connector offers protection against contact with wires or tools if they are smaller than 1 mm in accordance with protection type IP40. Pluggable installation connectors with B coding from the *WINSTA*® MINI line are available in pink, light green, or gray, allowing you to distinguish different circuits, for example for light, pumps or, sun blinds. Usage-specific pole marking is possible as well. Particularly where space is tight, our smallest pluggable connection system, *WINSTA*® MINI, consistently displays its advantageous properties. It saves space, and, with Push-in CAGE CLAMP® spring pressure connection technology, it additionally saves time, since the connection is low-maintenance and requires no screw connections.

WINSTA® MINI solutions for your electrical installation – protected against mismatching and maintenance-free

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It offers error-free installation of cables and components, quickly and reliably. 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
- easy tool-free operation, a wide range of coding options
- with B coding for use in automation of processes, such as lighting technology, for instance
- ready for immediate use
- convenient installation and commissioning

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 – Notes	
Ratings per		IEC/EN 60664-1		Ratings per IEC/EN – Notes	
Overvoltage category	III	III	II	Rated current (note)	13 A for 3-pole load 10 A for 4- and 5-pole load
Pollution degree	3	2	2		
Nominal voltage	400 V	-	-		
Rated surge voltage	6 kV	-	-		
Rated current	16 A	-	-		

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 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

Connection 1

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	35.5 mm / 1.398 inches
Height	17.5 mm / 0.689 inches
Depth	39.85 mm / 1.569 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
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	gray
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	0.261 MJ
Weight	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	27-44-06-02
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	4055143427647
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									
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									
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
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 890-745



Documentation

Bid Text
890-745
19.02.2019
xml 2.91 KB
890-745
30.11.2018
doc 23.00 KB



CAD/CAE-Data

CAD data
2D/3D Models 890-745



CAE data
EPLAN Data Portal 890-745
ZUKEN Portal 890-745



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 891-8995/205-103
pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. B; (H) 05VV-F 5x1,0 mm²; 1 m; 1,00 mm²; gray

Item No.: 891-8995/005-103
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. B; (H)05VV-F 5x1,0 mm²; 1 m; 1,00 mm²; gray

1.1.2 Male connector/plug



Item No.: 890-255
Plug; 5-pole; Cod. B; 1,50 mm²; gray

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



Item No.: 770-643
Lockout cap; 3-pole; for cutouts; Plastic; black



Item No.: 770-693
Lockout cap; 3-pole; for cutouts; Plastic; white

1.2.2 Tool

1.2.2.1 Operating tool



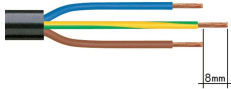
Item No.: 890-385
Operating tool; 5-way; green



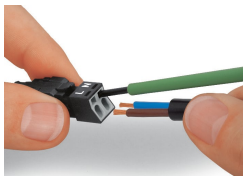
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

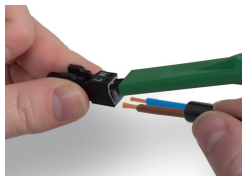
Conductor termination



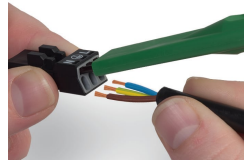
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

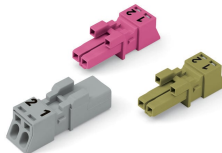


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



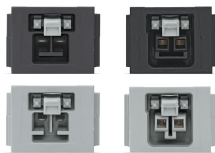
To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.

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.



