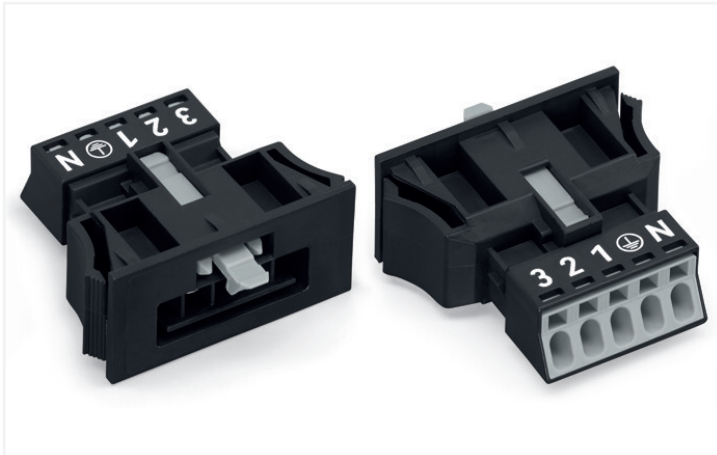


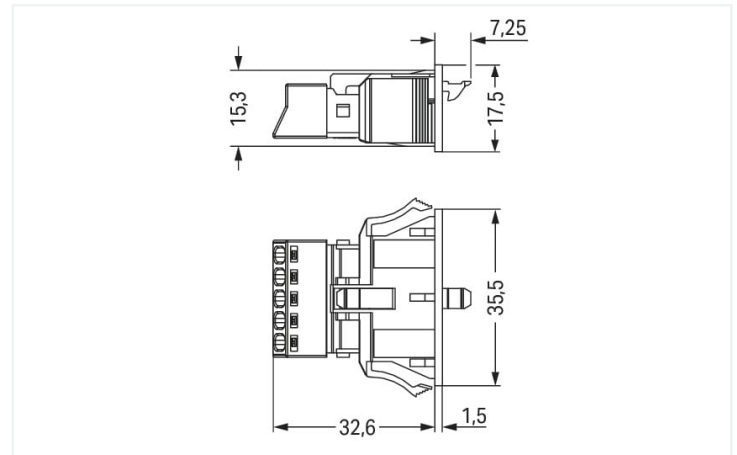
Data Sheet | Item Number: 890-715

Snap-in plug; 5-pole; Cod. A; 1,50 mm²; black

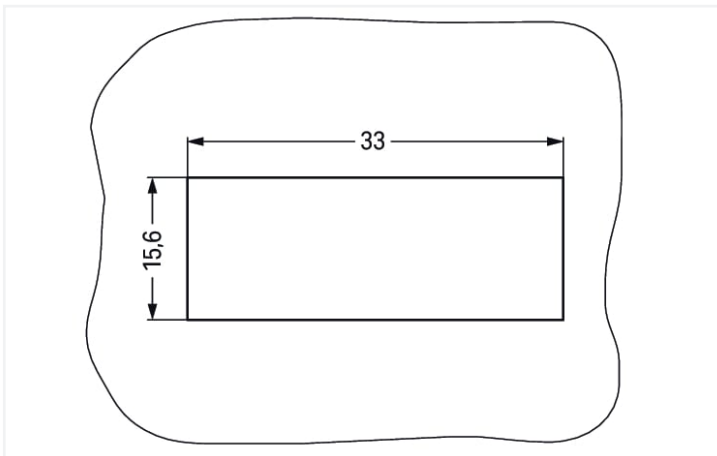
<https://www.wago.com/890-715>



Color: ■ black



Dimensions in mm



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Male connector/plug WINSTA® MINI with protection against mismatching

For signal and power transmission: The WINSTA® MINI male connector/plug 5-pole. WAGO pluggable installation connectors are useful when requirements repeat or are distributed on a specific pattern, for example for installing grid lighting or flush-mount lighting. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. The WINSTA® MINI pluggable installation connector with A coding in black or white is usually used for general mains applications in power distribution. WINSTA® MINI is our response to the trend toward miniaturisation. Our smallest pluggable connection system is primarily suited for lights, for instance, since due to LED technology, these offer less and less space for the connection technology.

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

The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, even more reliable, and error-free. Using this pre-assembled system reduces assembly times and installation errors at the construction site. Now you can also cut installation expenses without compromising safety and quality: The WINSTA® MINI pluggable installation connector with locking lever reduces the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- easy tool-free operation, a wide range of coding options
- with A coding for use in many general mains applications
- exact dimensions
- rapid, structured electrical installation



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).

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	13 A	-	-	-

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		
Connection points	5	
Total number of potentials	5	

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	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

Application	General mains applications
Coding	A
Variable coding	No
Marking	3 2 1 N
Potential marking	3 2 1 N
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	IP20; IP40 when mated

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
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	black
Cover color	gray
Material group	I
Insulation material	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	0.217 MJ
Weight	8 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 8.0	EC002566	
ETIM 7.0	EC002566	
PU (SPU)	50 (25) pcs	
Packaging type	Box	
Country of origin	PL	
GTIN	4045454233488	
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	EU-Declaration of Conformity WAGO GmbH & Co. KG		
CCA DEKRA Certification B.V.	EN 61535	71-123231	UK-Declaration of Conformity WAGO GmbH & Co. KG		
CCA DEKRA Certification B.V.	IEC 61535	NL-85020			
cURus Underwriters Laboratories Inc.	UL 1977	E45171			

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 890-715


Documentation

Bid Text			
890-715	19.02.2019	xml 2.89 KB	
890-715	30.11.2018	doc 23.00 KB	

CAD/CAE-Data

CAD data
2D/3D Models 890-715


CAE data	
EPLAN Data Portal 890-715	
WSCAD Universe 890-715	
ZUKEN Portal 890-715	

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



[Item No.: 891-8995/106-101](#)
pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black



[Item No.: 891-8995/006-101](#)
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black

1.1.2 Female connector/socket



[Item No.: 890-205](#)
Socket; 5-pole; Cod. A; 1,50 mm²; black



[Item No.: 890-105](#)
Socket; with strain relief housing; 5-pole; Cod. A; 1,50 mm²; black

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



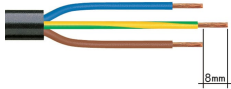
Item No.: 890-385
Operating tool; 5-way; green



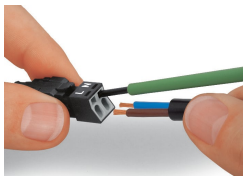
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

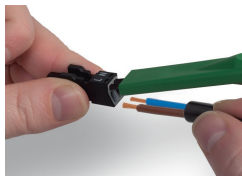
Conductor termination



- 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.

