

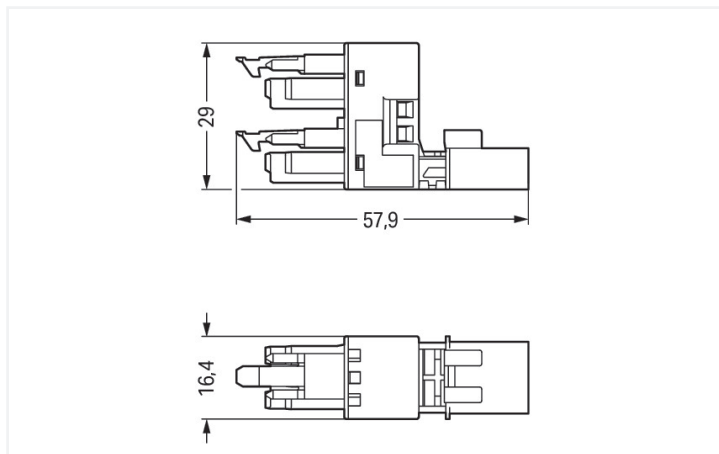
Data Sheet | Item Number: 890-1661

h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; gray

<https://www.wago.com/890-1661>



Color: ■ gray



Dimensions in mm

Distribution connector *WINSTA*® MINI with protection type IP20

For power and signal transmission: The *WINSTA*® MINI distribution connector with protection type IP20. WAGO pluggable installation connectors are used when requirements repeat or are distributed on a defined grid, for example for installing grid lighting or flush-mount lighting. For greater security in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismatching. 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 satisfies the demand for miniaturisation. Our smallest pluggable connection system is especially suitable for lights, for example, 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 saves time, lowers costs, and reduces the need for servicing. Now you can also lower installation expenses without compromising safety and quality: with protection type IP20 eliminates the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismatching
- easy tool-free operation, a wide range of coding options
- for automation controllers
- custom-engineered solutions
- convenient installation and commissioning

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	II
Pollution degree	3	2	2
Nominal voltage	250 V	-	-
Rated impulse withstand voltage	4 kV	-	-
Rated current	16 A	-	-

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

Approvals per		UL 1977	
Rated voltage		600 V	
Rated current		14 A	

General information	
Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket

Connection Data	
Total number of potentials	3

Connection 1	
Pole number	3

Physical data	
Pin spacing	4.4 mm / 0.173 inches
Width	16.4 mm / 0.646 inches
Height	29 mm / 1.142 inches
Depth	57.85 mm / 2.278 inches

Mechanical data	
Use	Control technology
Coding	B
Variable coding	No
Marking	1 2 3
Potential marking	1 2 3
Mating force of a plug-in connection	Approx. 20 ... 70 N (depending on pole number)
Retention force of a plug-in connection	When 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
Type of distribution box	h-distribution connector, outputs at one end
Protection type	IP20; IP40 when mated

Plug-in connection	
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).
Number of locking levers	2

Material data	
Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper or copper alloy; surface-treated
Contact Plating	Tin
Fire load	0.238 MJ
Weight	13.4 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)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821530770
Customs tariff number	85366990990

Product Classification

UNSPSC	39121421
eCl@ss 10.0	27-44-06-03
eCl@ss 9.0	27-44-06-03
ETIM 9.0	EC002567
ETIM 10.0	EC002567
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 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, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	EN 61535	LR23317167TA
PRS Polski Rejestr Statków	-	TE/1096/880590/23

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-1661



Documentation

Bid Text

890-1661	19.02.2019	xml 2.79 KB	
890-1661	02.12.2014	doc 22.50 KB	

CAD/CAE-Data

CAD data

2D/3D Models
890-1661



CAE data

WSCAD Universe
890-1661



ZUKEN Portal
890-1661



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 891-8993/205-103

pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm²; gray



Item No.: 891-8993/105-103

pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm²; gray



Item No.: 891-8993/005-103

pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. B; 1 m; 1,00 mm²; gray

1.1.2 Female connector/socket



Item No.: 890-243

Socket; 3-pole; Cod. B; 1,50 mm²; gray

1.1.3 Male connector/plug



Item No.: 890-253

Plug; 3-pole; Cod. B; 1,50 mm²; gray

1.2 Required Accessories

1.2.1 Installation

1.2.1.1 Mounting accessories



Item No.: 890-623

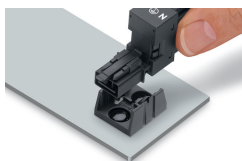
Mounting plate; 3-pole; for distribution connectors; Plastic; black

Item No.: 890-673

Mounting plate; 3-pole; for distribution connectors; Plastic; white

Installation Notes

Installation



Secure the mounting plate via pins.