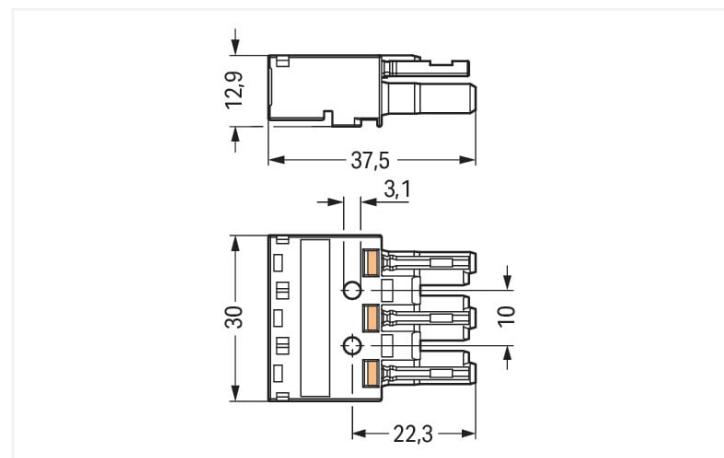




Color: ■ orange



Dimensions in mm

Female connector/socket WINSTA® MIDI R coding

The WINSTA® MIDI female connector/socket R coding is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. WAGO pluggable installation connectors are used when criteria repeat or are distributed on a specific pattern, 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 offers touch-proof protection with live components in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). This pluggable installation connector can be used for a load of up to 25 A. Therefore, it can also be used for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy and maximally flexible electrical installation.

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 durability and quality – with protection type IP20 from WAGO makes the installation of electrical components noticeably easier.

- protection against mismatching eliminates errors
- simple circuits
- custom-engineered solutions
- convenient installation and commissioning

Electrical data

Ratings per			IEC/EN 60664-1	Approvals per	UL 1977
Overvoltage category	III	III	II	Rated voltage	600 V
Pollution degree	3	2	2	Rated current	23 A
Nominal voltage	250 V	-	-		
Rated surge voltage	4 kV	-	-		
Rated current	25 A	-	-		

General information

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
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Connection data

Connection data		Connection 1	
Connection points	6	Connection technology	Push-in CAGE CLAMP®
Total number of potentials	3	Actuation type	Operating tool Push-in
		Nominal cross-section	4 mm ² / 12 AWG
		Solid conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
		Solid conductor; push-in termination	1.5 ... 4 mm ² / 16 ... 12 AWG
		Stranded conductor	0.5 ... 2.5 mm ² / 20 ... 14 AWG
		Fine-stranded conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ² / 20 ... 16 AWG
		Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ² / 20 ... 14 AWG
		Fine-stranded conductor; with ferrule; push-in termination	1.5 mm ² / 16 AWG
		Strip length	9 mm / 0.35 inches
		Pole number	3
		Conductor entry direction to mating direction	0°

Physical data

Pin spacing	10 mm / 0.394 inches
Width	30 mm / 1.181 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

Mechanical data

Application	LON bus
Coding	R
Variable coding	No
Marking	LON LON S
Potential marking	LON LON S
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; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

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	orange
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	0.172 MJ
Weight	9.5 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

eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918252713
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA	EN 61535	71-123228	EU-Declaration of Conformity	-	-
DEKRA Certification B.V.			WAGO GmbH & Co. KG		
CCA	IEC 61535	NL-84761			
DEKRA Certification B.V.					
cURus Underwriters Laboratories Inc.	UL 1977	E45171			
cURus Underwriters Laboratories Inc.	UL 1059	E 45172			

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	19-HG1868589-PDA
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
LR Lloyds Register	IEC 61984	LR22429487TA

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-1343



Documentation

Bid Text

770-1343	19.02.2019	xml 3.01 KB	
770-1343	08.06.2015	doc 23.50 KB	

CAD/CAE-Data

CAE data

EPLAN Data Portal
770-1343WSCAD Universe
770-1343

1 Compatible Products

1.1 System counterpart

1.1.1 Distribution connector

[Item No.: 770-667](#)

T-distribution connector; 3-pole; Cod. R; 1 input; 2 outputs; 2 locking levers; orange

[Item No.: 770-670](#)

T-distribution connector; 3-pole; Cod. R; 1 input; 2 outputs; 3 locking levers; for flying leads; orange

1.1.2 Male connector/plug



Item No.: 770-1353

Plug; 3-pole; Cod. R; 4,00 mm²; orange



Item No.: 770-2353

Snap-in plug; 3-pole; Cod. R; 4,00 mm²; orange

1.2 Required Accessories

1.2.1 Locking system



Item No.: 770-101

Locking lever; for flying leads; for manual operation; black



Item No.: 770-121

Locking lever; for flying leads; for manual operation; white



Item No.: 770-111

Locking lever; for flying leads; for tool operation; black



Item No.: 770-131

Locking lever; for flying leads; for tool operation; white

1.2.2 Strain relief

1.2.2.1 Strain relief housing



Item No.: 770-503

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black



Item No.: 770-513

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

1.3 Optional Accessories

1.3.1 Cover



Item No.: 770-201

Lockout cap; 12-pole, separable; for sockets; Plastic; black



Item No.: 770-221

Lockout cap; 12-pole, separable; for sockets; Plastic; white

1.3.2 Installation

1.3.2.1 Mounting accessories



Item No.: 770-318

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; black



Item No.: 770-338

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; white

1.3.3 Marking

1.3.3.1 Marker



[Item No.: 770-450/000-006](#)
Marker card; Plastic; blue



[Item No.: 770-450/000-001](#)
Marker card; Plastic; green



[Item No.: 770-450/000-012](#)
Marker card; Plastic; orange



[Item No.: 770-450/000-005](#)
Marker card; Plastic; red



[Item No.: 770-450](#)
Marker card; Plastic; white



[Item No.: 770-450/000-002](#)
Marker card; Plastic; yellow

1.3.4 Strain relief

1.3.4.1 Strain relief housing



[Item No.: 770-503/021-000](#)
Strain relief housing; 3-pole; for 1 cable;
9.0 ... 13.0 mm; 71 mm; black



[Item No.: 770-513/021-000](#)
Strain relief housing; 3-pole; for 1 cable;
9.0 ... 13.0 mm; 71 mm; white



[Item No.: 770-503/023-000](#)
Strain relief housing; 3-pole; for 2 cables;
4.5 ... 8.0 mm; 55 mm; black



[Item No.: 770-513/023-000](#)
Strain relief housing; 3-pole; for 2 cables;
4.5 ... 8.0 mm; 55 mm; white



[Item No.: 770-513/032-000](#)
Strain relief housing; 3-pole; for 2 cables;
8.0 ... 11.5 mm; 55 mm; white



[Item No.: 770-503/035-000](#)
Strain relief housing; 3-pole; with locking
clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm;
black



[Item No.: 770-503/038-000](#)
Strain relief housing; 3-pole; with locking
clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm;
black



[Item No.: 770-513/035-000](#)
Strain relief housing; 3-pole; with locking
clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm;
white



[Item No.: 770-513/038-000](#)
Strain relief housing; 3-pole; with locking
clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm;
white



[Item No.: 770-503/032-000](#)
Strain relief housing; 3-pole; with locking
clip; for 2 cables; 8.0 ... 11.5 mm; 55 mm;
black

1.3.5 Tool

1.3.5.1 Operating tool



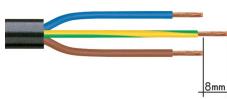
[Item No.: 770-383](#)
Operating tool; 3-way; green



[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 = 35 mm (2-pole), 55 mm (3- to 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 strip-
ped conductor until it hits the backstop.

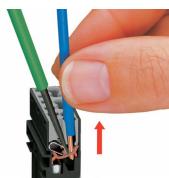


Insert the stripped solid conductor until it
hits the backstop.



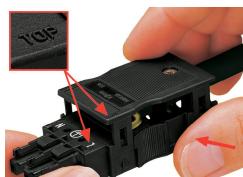
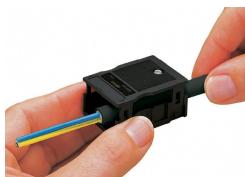
To terminate fine-stranded conductors,
open the clamping unit via screwdriver
(2.5 mm blade width) and insert a stripped
conductor until it hits the backstop.

Conductor removal



To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation



We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.

Latch the strain relief housing onto the plug/socket. Note the "TOP" inscription.

Prepare strain relief housing by snapping together upper and bottom part.

Tighten strain relief screw with screwdriver (2.5 mm blade width).