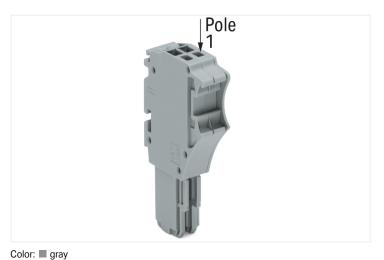
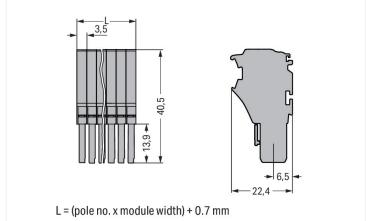
1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5

mm; 2-pole; 1,50 mm²; gray

https://www.wago.com/2020-102







Dimensions in mm

Female connector, 2020 Series, Push-in CAGE CLAMP®

This female connector (item number 2020-102) simplifies electrical installations. Pluggable rail-mount terminal blocks are primarily found in switchgear units and control systems, most notably in railroad technology. These innovative systems combine the properties of rail-mount terminal blocks and connectors for a flexible and reliable wiring system. You also have the option of pre-assembling installations, which not only makes production but also installation, operation, and maintenance more efficient and cost-effective. Rated current and voltage are key factors to consider when choosing a pluggable rail-mount terminal block, as they indicate how the product can be used. This product has a rated voltage of 500 V and a rated current of 13.5 A. Conductors can only be connected to this female connector if their strip length is between 9 mm and 11 mm. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing to use any tools—all thanks to its pluggable design. The dimensions are 7.7 x 40.5 x 22.4 mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.14 mm² to 1.5 mm². There are two clamping points available that you can use to connect two different potentials / two poles. The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this female connector/socket. You can connect copper conductors thanks to front-entry wiring.

Notes	
Safety Information	According to EN 61984, pluggable connectors without current interrupting capacity must not be mated or unmated when live or under load.
Safety information 2	Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Electrical data				
Ratings per	IE	EC/EN 6198	4	Approv
Overvoltage category	III	III	II	Use grou
Pollution degree	3	2	2	Rated vo
Nominal voltage	500 V	-	-	Rated cu
Rated impulse withstand voltage	6 kV	-	-	
Rated current	13.5 A	-	-	

Approvals per	CS	A 22.2 No 1	58
Use group	В	С	D
Rated voltage	300 V	300 V	300 V
Rated current	10 A	10 A	10 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	300 V	300 V
Rated current	15 A	15 A	15 A

Data Sheet | Item Number: 2020-102 https://www.wago.com/2020-102



Connection data			
Clamping units	2	Connection 1	
Total number of potentials	2	Connection technology	Push-in CAGE CLAMP®
		Actuation type	Operating tool
		Connectable conductor materials	Copper
		Nominal cross-section	1 mm²
		Solid conductor	0.14 1.5 mm² / 24 16 AWG
		Solid conductor; push-in termination	0.5 1.5 mm² / 20 16 AWG
		Fine-stranded conductor	0.14 1.5 mm² / 24 16 AWG
		Fine-stranded conductor; with insulated ferrule	0.14 0.75 mm² / 24 18 AWG
		Fine-stranded conductor; with ferrule; push-in termination	0.5 0.75 mm² / 20 18 AWG
	Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.	
		Strip length	9 11 mm / 0.35 0.43 inches
		Pole number	2
		Wiring direction	Front-entry wiring

Physical data	
Width	7.7 mm / 0.303 inches
Height	40.5 mm / 1.594 inches
Depth	22.4 mm / 0.882 inches
Module width	3.5 mm / 0.138 inches

Mechanical data	
Variable coding	Yes
Marking level	Side marking
Anti-rotation protection	Yes

Plug-in connection	
Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	No

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
Fire load	0.091 MJ
Weight	4.9 g

https://www.wago.com/2020-102



Environmental requirements

Processing temperature $-35 \dots +85 \,^{\circ}\text{C}$ Continuous operating temperature $-60 \dots +105 \,^{\circ}\text{C}$

Commercial data	
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821245025
Customs tariff number	85366990990

Product Classification	
UNSPSC	39121409
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 9.0	EC001284
ETIM 8.0	EC001284
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status Compliant,No Exemption

Approvals / Certificates

General approvals





Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7617
CSA DEKRA Certification B.V.	C22.2	2516073
UL UL International Germany GmbH	UL 1059	E 45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications





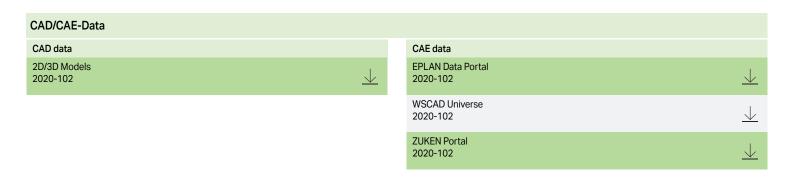
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	24-0152298-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

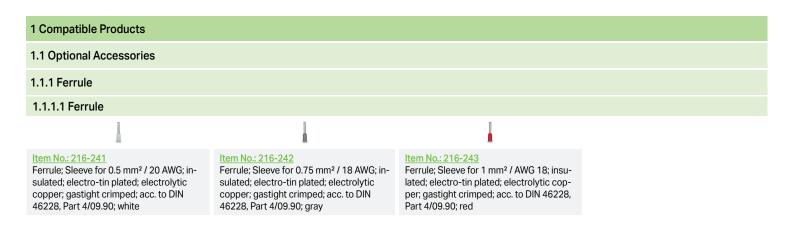
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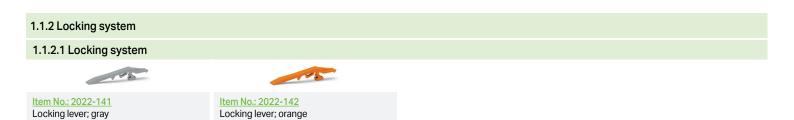


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Documentation Bid Text 2020-102 xml 19.02.2019 3.90 KB 2020-102 docx 06.08.2018 14.90 KB







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1.1.3 Marking

1.1.3.1 Marker

MINIMA



Item No.: 793-3501

WMB marking card; as card; plain; snapon type; white Item No.: 2009-113

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

1.1.3.2 Marking strip



Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

Item No.: 210-831

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

Item No.: 210-832

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

Item No.: 210-834

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

1.1.4 Protective warning marker

1.1.4.1 Cover



Item No.: 2000-115

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.1.5 Screwless end stop

1.1.5.1 Mounting accessories





Item No.: 249-117

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

Item No.: 249-116

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.6 Strain relief

1.1.6.1 Strain relief plate



Item No.: 734-327

Strain relief plate; for female and male connectors; 6 mm wide; 1 part; gray

https://www.wago.com/2020-102



1.1.7 Tool

1.1.7.1 Operating tool

Item No.: 210-719

Operating tool; Blade: $2.5 \times 0.4 \, \text{mm}$; with a partially insulated shaft

Item No.: 210-648

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

Item No.: 210-647

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

Coding



Insert coding pin into the corresponding slot and twist it off.



Coding a female plug: remove coding finger using a suitable tool.



Insert coded female plug into X-COM[®]S-SYSTEM terminal block assembly.

Locking system



Slide the locking lever into position.



Female plugs can be individually locked.

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at:: $\underline{www.wago.com}$