

Color: gray/green-yellow Similar to illustration

Female connector, 2020 Series, operating tool

Our female connector (item number 2020-214/000-036) 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. This pluggable rail-mount terminal block has a rated voltage of 500 V and can handle currents up to 13.5 A. Ensure that the strip lengths are between 9 mm and 11 mm when connecting conductors to this female connector. 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 the need for tools—all thanks to its pluggable design. Dimensions: 49.7 x 40.5 x 25 mm (width x height x depth). Depending on the conductor type, this female connector is ideal for conductor cross sections ranging from 0.14 mm² to 1.5 mm². There are twenty-eight clamping points available that you can use to connect fourteen different potentials / fourteen poles. The gray/green-yellow housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this female connector/socket. Conductors made of copper can be connected 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		IEC/EN 61984		Approvals per		UL 1059	
Overvoltage category	III	III	II	Use group	B	C	D
Pollution degree	3	2	2	Rated voltage	300 V	300 V	300 V
Nominal voltage	500 V	-	-	Rated current	15 A	15 A	15 A
Rated surge voltage	6 kV	-	-				
Rated current	13.5 A	-	-				

Approvals per		CSA 22.2 No 158	
Use group	B	C	D
Rated voltage	300 V	300 V	300 V
Rated current	10 A	10 A	10 A



Connection data																												
Clamping units	28	<div><div>Connection 1</div><table><tr><td>Connection technology</td><td>Push-in CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Operating tool</td></tr><tr><td>Connectable conductor materials</td><td>Copper</td></tr><tr><td>Nominal cross-section</td><td>1 mm²</td></tr><tr><td>Solid conductor</td><td>0.14 ... 1.5 mm² / 24 ... 16 AWG</td></tr><tr><td>Solid conductor; push-in termination</td><td>0.5 ... 1.5 mm² / 20 ... 16 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.14 ... 1.5 mm² / 24 ... 16 AWG</td></tr><tr><td>Fine-stranded conductor; with insulated ferrule</td><td>0.14 ... 0.75 mm² / 24 ... 18 AWG</td></tr><tr><td>Fine-stranded conductor; with ferrule; push-in termination</td><td>0.5 ... 0.75 mm² / 20 ... 18 AWG</td></tr><tr><td>Note (conductor cross-section)</td><td>Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.</td></tr><tr><td>Strip length</td><td>9 ... 11 mm / 0.35 ... 0.43 inches</td></tr><tr><td>Pole number</td><td>14</td></tr><tr><td>Wiring direction</td><td>Front-entry wiring</td></tr></table></div>	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	14	Wiring direction	Front-entry wiring
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Pole number	14																											
Wiring direction	Front-entry wiring																											
Total number of potentials	14																											

Physical data		
Width	49.7 mm / 1.957 inches	
Height	40.5 mm / 1.594 inches	
Depth	25 mm / 0.984 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/green-yellow	
Material group	I	
Insulation material (main housing)	Polyamide (PA66)	
Flammability class per UL94	V0	
Fire load	0.632 MJ	
Weight	38.5 g	





Environmental requirements	
Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

Commercial data	
Product Group	18 (X-COM-System)
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821221906
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		Declarations of conformity and manufacturer's declarations
		
Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7617
UL UL International Germany GmbH	UL 1059	E 45172
Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 2020-214/000-036	



Documentation

Bid Text			
2020-214/000-036	19.02.2019	xml 4.01 KB	
2020-214/000-036	07.08.2018	docx 15.24 KB	

CAD/CAE-Data

CAD data
2D/3D Models 2020-214/000-036



CAE data
EPLAN Data Portal 2020-214/000-036
WSCAD Universe 2020-214/000-036
ZUKEN Portal 2020-214/000-036



1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule



[Item No.: 216-241](#)
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

[Item No.: 216-242](#)
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

[Item No.: 216-243](#)
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

1.1.2 Locking system

1.1.2.1 Locking system



[Item No.: 2022-151](#)
Locking lever; gray

[Item No.: 2022-152](#)
Locking lever; orange

1.1.3 Marking

1.1.3.1 Marker



[Item No.: 793-3501](#)
WMB marking card; as card; plain; snap-on type; white

[Item No.: 2009-113](#)
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; 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.: 734-326
Strain relief plate; for female and male connectors; 35 mm wide; 1 part; gray

1.1.7 Tool

1.1.7.1 Operating tool



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



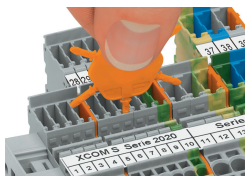
Item No.: 210-648
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

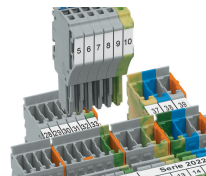
Coding



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.