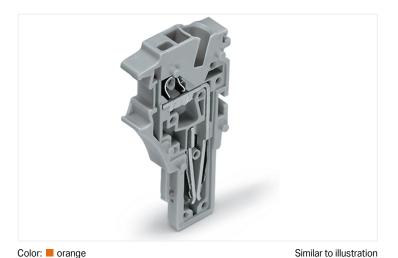
End module for 1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin

spacing 5.2 mm; 1-pole; 4,00 mm²; orange

https://www.wago.com/2022-182





Female connector, 2022 Series, orange

Our female connector (item number 2022-182) is designed for seamless 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 benefits 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 important parameters when selecting a pluggable rail-mount terminal block, as they indicate possible applications and uses. This product has a rated voltage of 690 V and a rated current of 24 A. Ensure that the strip lengths are between 10 mm and 12 mm when connecting conductors to this female connector. Featuring conductor terminals along with Push-in CAGE CLAMP®, this connector delivers reliable performance. Push-in CAGE CLAMP® technology provides a universal connection solution for any type of conductor. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. The item's dimensions are 5.2 x 40.5 x 22.4 mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.25 mm² to 4 mm². You can connect a single potential / one pole using one clamping point. The orange housing is made of polyamide (PA66) for insulation. This female connector/socket is operated with an operating tool. You can connect copper conductors thanks to frontentry 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.

Electrical data			
Ratings per	IE	C/EN 6198	4
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	690 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	24 A	-	-
Current at conductor cross-section (max.) mm ²	32 A	-	-

Approvals per	CS	SA 22.2 No 15	8
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	20 A	-

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	600 V	600 V	-
Rated current	20 A	20 A	-

Data Sheet | Item Number: 2022-182 https://www.wago.com/2022-182



nnection data			
Clamping units	1	Connection 1	
Total number of potentials	1	Connection technology	Push-in CAGE CLAMP®
		Actuation type	Operating tool
		Connectable conductor materials	Copper
		Nominal cross-section	2.5 mm ²
		Solid conductor	0.25 4 mm² / 22 12 AWG
		Solid conductor; push-in termination	0.75 4 mm² / 18 12 AWG
		Fine-stranded conductor	0.25 4 mm² / 22 12 AWG
	Fine-stranded conductor; with insulated ferrule	0.25 2.5 mm² / 22 14 AWG	
	Fine-stranded conductor; with ferrule; push-in termination	1 2.5 mm² / 18 14 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	10 12 mm / 0.39 0.47 inches
		Pole number	1
		Wiring direction	Front-entry wiring

Physical data	
Width	5.2 mm / 0.205 inches
Height	40.5 mm / 1.594 inches
Depth	22.4 mm / 0.882 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
Plugging without loss of pin spacing	Yes

Material data	
Note (material data)	Information on material specifications can be found here
Color	orange
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.065 MJ
Weight	3.6 g



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Environr	mantalr	cauirom	onto
	nentan	euullell	ICIILO

Processing temperature -35 ... +85 °C

Continuous operating temperature

-60 ... +105 °C

Test specification
Railway applications –
Rolling stock –

Environmental Testing (Environmental Conditions)

DIN EN 50155 (VDE 0115-200):2022-0
Railway applications –
Rolling stock –

DIN EN 50155 (VDE 0115-200):2022-06 Electronic equipment Test procedure DIN EN 61373 (VDE 0115-0106):2011-04 Railway applications -Rolling stock equipment -Shock and vibration tests Spectrum/Installation location Service life test, Category 1, Class A/B Function test with noise-like vibration Test passed according to Section 8 of the standard $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ Frequency $f_1' = 5 \text{ Hz to } f_2' = 150 \text{ Hz}$ Acceleration 0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes) 5g (highest test level used for all axes) 10 min. Test duration per axis 5 h Test directions X, Y and Z axes X, Y and Z axes X, Y and Z axes Monitoring for contact faults/interrupti-Passed Voltage drop measurement before and Passed after each axis Simulated service life test through incre-Test passed according to Section 9 of ased levels of noise-like vibration the standard Extended test scope: Monitoring for con-Passed tact faults/interruptions Passed Extended test scope: Voltage drop mea-Passed surement before and after each axis Passed Shock test Test passed according to Section 10 of the standard Half sine Shock form Shock duration 30 ms

3 pos. und 3 neg.

Passed

Commercial data	
Product Group	18 (X-COM-System)
PU (SPU)	250 pcs
Packaging type	Bag
Country of origin	CN
GTIN	4066966659979
Customs tariff number	85366990990

Number of shocks per axis

stock equipment

Vibration and shock stress for rolling

https://www.wago.com/2022-182



Product classification

UNSPSC 39121409

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals



Approval Standard **Certificate Name** CSA C22.2 No. 158 2437422

DEKRA Certification B.V.

WAGO GmbH & Co. KG

Approval Standard **Certificate Name** Railway Z00004392.000

Declarations of conformity and manufacturer's declarations

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product

Compliance 2022-182



Documentation

Additional	Information
Additional	miormation

Technical Section pdf 2246.92 KB

Bid Text			
2022-182	19.02.2019	xml 4.26 KB	$\underline{\downarrow}$
2022-182	14.05.2019	docx 16.13 KB	$\underline{\downarrow}$

CAD/CAE-Data

CAD data

2D/3D Models 2022-182

CAE data

EPLAN Data Portal 2022-182

WSCAD Universe 2022-182

ZUKEN Portal 2022-182



https://www.wago.com/2022-182



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.: 216-263

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-246

Ferrule; Sleeve for 2.5 mm² / AWG 14; in-



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.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-266

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



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.: 216-264

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-286 Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90: red



Item No.: 216-284

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228. Part 4/09.90: blue

1.1.2 Insulation stop

1.1.2.1 Insulation stop





Item No.: 2002-171

Insulation stop; 0.25 - 0.5 mm2; 5 pieces/ strip; light gray

Item No.: 2002-172

Insulation stop; 0.75 - 1 mm2; 5 pieces/ strip; dark gray

1.1.3 Locking system

1.1.3.1 Locking system









Item No.: 2022-141

Locking lever; gray

Item No.: 2022-151 Locking lever; gray

Item No.: 2022-142 Locking lever; orange Item No.: 2022-152 Locking lever; orange

1.1.4 Marking

1.1.4.1 Marker





Item No.: 793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; white

Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

https://www.wago.com/2022-182



1.1.4.2 Marking strip

Item No.: 210-833

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

1.1.5 Protective warning marker

1.1.5.1 Cover



Item No.: 2002-115

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

1.1.6 Screwless end stop

1.1.6.1 Mounting accessories



-

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



Item No.: 249-116

Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

1.1.7 Strain relief

Item No.: 249-117

1.1.7.1 Strain relief plate



Strain relief plate; for female and male



Strain relief plate; for female and male connectors; 12.5 mm wide; 1 part; gray



Item No.: 734-329

Strain relief plate; for female and male connectors; 25 mm wide; 1 part; gray



Item No.: 734-326

Strain relief plate; for female and male connectors; 35 mm wide; 1 part; gray

Item No.: 734-327

Item No.: 734-430

connectors; 1 part; gray

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

<u>Item No.: 734-431</u>

Strain relief plate; for female and male connectors; 75 mm wide; 1 part; gray

https://www.wago.com/2022-182



1.1.8 Tool

1.1.8.1 Operating tool



<u>Item No.: 210-720</u>

Operating tool; Blade: 3.5 x 0.5 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:: $\underline{www.wago.com}$