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







Color: ■ orange



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 impulse withstand voltage	6 kV	-	-
Rated current	24 A	-	-
Current at conductor cross-section (max.) mm ²	32 A	-	-

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

Approvals per	С	SA 22.2 No 15	58
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	20 A	-

Connection data	
Clamping units	1
Total number of potentials	1

Connection 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

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



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

ironmental requirements			
cessing temperature	-35 +85 °C	Environmental Testing	
Continuous operating temperature -60 +105 °C	Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):202	
	Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):20	
		Spectrum/Mounting location	Service life test, Category 1, Class
		Functional test with noise-like oscillations	Test passed according to Section 8 the standard
		Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
		Acceleration	0.101g (highest test level used for a axes)
		Test duration per axis	10 min.
		Test directions	X, Y and Z axes
		Monitoring of contact faults and interruptions	Passed
		Voltage drop measurement before and after each axis	Passed
		Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 the standard
		Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
		Acceleration	0.572g (highest test level used for a axes)
		Test duration per axis	5 h
		Test directions	X, Y and Z axes
		Extended testing: Monitoring of contact faults and interruptions	Passed
		Extended testing: Voltage drop measurement before and after each axis	Passed
		Shock test	Test passed according to Section 1 the standard
		Shock pulse form	Half sine
		Acceleration	5g (highest test level used for all ax
		Shock duration	30 ms
		Number of shocks (per axis)	3 pos. und 3 neg.
		Test directions	X, Y and Z axes
		Extended testing: Monitoring of contact faults and interruptions	Passed
	Extended testing: Voltage drop measurement before and after each axis	Passed	

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



Environmental Testing

Vibration and shock stress for rolling stock equipment

Passed

Commercial data	
Product Group	18 (X-COM-System)
PU (SPU)	250 pcs
Packaging type	Bag
Country of origin	CN
GTIN	406696659979
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
CSA DEKRA Certification B.V.	C22.2 No. 158	2437422

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
Railway	-	Z00004392.000

Downloads

Environmental Product Compliance

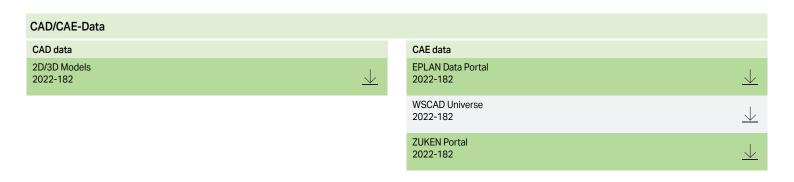
Compliance Search

Environmental Product Compliance 2022-182





Documentation Bid Text 2022-182 xml 4.26 KB 19.02.2019 2022-182 docx 14.05.2019 16.13 KB





46228, Part 4/09.90; blue

46228, Part 4/09.90; blue

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



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

Item No.: 2022-151 Locking lever; gray 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

1.1.4.2 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; whi-

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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

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



1.1.6 Screwless end stop

1.1.6.1 Mounting accessories





Item No.: 249-117

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

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

1.1.7 Strain relief

1.1.7.1 Strain relief plate









Item No.: 734-430

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

Item No.: 734-328

Item No.: 249-116

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

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Item No.: 734-327

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

Item No.: 734-431

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

1.1.8 Tool

1.1.8.1 Operating tool



Item No.: 210-720

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:: $\underline{www.wago.com}$