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

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

https://www.wago.com/2022-184





Color: ■ blue

Female connector, 2022 Series, blue

(max.) mm²

Our female connector (item number 2022-184) simplifies electrical installations. Pluggable rail-mount terminal blocks are mainly used in switchgear units and control systems (e.g., in railroad technology). They are essentially a combination of rail-mount terminal blocks and pluggable connectors. You can also pre-assemble installations thanks to the variable wiring system. This saves both time and money during manufacture, installation, operation, and maintenance. This pluggable rail-mount terminal block has a rated voltage of 690 V and can handle currents up to 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 product is highly versatile. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. Dimensions: 5.2 x 40.5 x 22.4 mm (width x height x depth). Depending on the type of conductor, this female connector is designed for conductor cross sections ranging from 0.25 mm² to 4 mm². There is one clamping point available that you can use to connect a single potential / one pole. The blue housing is made of polyamide (PA66) for insulation. This female connector/socket is operated with an operating tool. The front-entry wiring makes it possible to connect copper conductors.

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 61984	4	Approvals per		UL 1059
Overvoltage category	III	III	II	Use group	В	С
Pollution degree	3	2	2	Rated voltage	600 V	600 V
Nominal voltage	690 V	-	-	Rated current	20 A	20 A
Rated surge voltage	6 kV	-	-			
Rated current	24 A	-	-			
Current at conductor cross-section	32 A	-	-			

Approvals per	CSA 22.2 No 158		
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	20 A	-



onnection 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	blue
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.065 MJ
Weight	3.6 g



Environmental requirements

Processing temperature $-35 \dots +85 \,^{\circ}\text{C}$ Continuous operating temperature $-60 \dots +105 \,^{\circ}\text{C}$ **Environmental Testing (Environmental Conditions)**

Test specification Railway applications – Rolling stock – Electronic equipment

Test procedure

DIN EN 50155 (VDE 0115-200):2022-06

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

Frequency $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$

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)

Test duration per axis 10 min. 5 h

Test directions X, Y and Z axes X, Y and Z axes X, Y and Z axes X, Y and Z axes

Monitoring for contact faults/interrupti-

Voltage drop measurement before and

Passed

after each axis
Simulated service life test through incre-

Test passed according to Section 9 of the standard

ased levels of noise-like vibration

Extended test scope: Monitoring for contact faults/interruptions

Passed Passed

Extended test scope: Voltage drop measurement before and after each axis Shock test

Passed
Test passed according to Section 10 of

Shock form Half sine
Shock duration 30 ms

Number of shocks per axis 3 pos. und 3 neg.

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
 4066966659986

 Customs tariff number
 85366990990

https://www.wago.com/2022-184



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
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-101560
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004392.000
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications







Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	38586/B0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads

Environmental Product Compliance

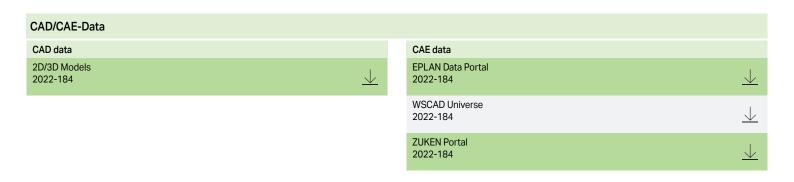
Compliance Search

Environmental Product Compliance 2022-184





Documentation Bid Text 2022-184 xml 4.26 KB 19.02.2019 2022-184 docx 14.05.2019 16.12 KB





46228, Part 4/09.90; blue

46228, Part 4/09.90; blue

https://www.wago.com/2022-184



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

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; white

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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

<u>Item No.: 210-834</u>

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/2022-184



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

*

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

<u>Item No.: 734-328</u>

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

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