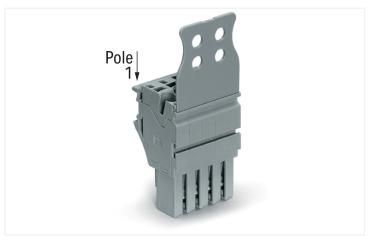
1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin spacing 5.2 mm;

12-pole; Strain relief plate; 4,00 mm²; gray

https://www.wago.com/2022-112/136-000





Color: ■ gray

Similar to illustration

Female connector, 2022 Series, Push-in CAGE CLAMP®

Our female connector (item number 2022-112/136-000) 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. Our pluggable rail-mount terminal block is rated for 690 V and is designed to handle a rated current of up to 24 A. Conductors can only be connected to this female connector if their strip length is between 10 mm and 12 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. Solid and fine-stranded conductors with ferrules can be inserted without the need for tools—all thanks to its pluggable design. Dimensions: 62.4 x 74 x 22.4 mm (width x height x depth). Depending on the conductor type, this female connector is designed for conductor cross sections ranging from 0.25 mm² to 4 mm². You can connect twelve potentials / twelve poles using the twelve clamping points. 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. You can secure connected conductors with the strain relief plate to make cables more manageable.

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	EC/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	58
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: 2022-112/136-000 https://www.wago.com/2022-112/136-000



onnection data			
Clamping units	12	Connection 1	
Total number of potentials 12	12	Connection technology	Push-in CAGE CLAMP®
		Actuation type	Operating tool
		Connectable conductor materials	Copper
		Nominal cross-section	2.5 mm²
		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	12
		Wiring direction	Front-entry wiring

Physical data	
Width	62.4 mm / 2.457 inches
Height	74 mm / 2.913 inches
Depth	22.4 mm / 0.882 inches
Module width	5.2 mm / 0.205 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
Strain relief	Strain relief plate

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	0.758 MJ
Weight	41 g



Envi	ronmental	I requirements

-35 ... +85 °C Processing temperature **Environmental Testing (Environmental Conditions)** DIN EN 50155 (VDE 0115-200):2022-06 Continuous operating temperature -60 ... +105 °C Test specification Railway applications -Rolling stock -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 after each axis

Passed

Simulated service life test through increased levels of noise-like vibration

Extended test scope: Monitoring for con-

tact faults/interruptions Extended test scope: Voltage drop measurement before and after each axis

Shock test

Test passed according to Section 10 of the standard Half sine Shock form

Shock duration 30 ms Number of shocks per axis 3 pos. und 3 neg.

Vibration and shock stress for rolling stock equipment

Passed

the standard

Passed

Passed

Passed

Passed

Test passed according to Section 9 of

Commercial data	
Product Group	18 (X-COM-System)
PU (SPU)	20 pcs
Packaging type	Вох
Country of origin	DE
GTIN	4050821089506
Customs tariff number	85366990990

https://www.wago.com/2022-112/136-000



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



ApprovalStandardCertificate NameCSAC22.2 No. 1582437422DEKRA Certification B.V.2437422

Declarations of conformity and manufacturer's declarations



ApprovalStandardCertificate NameRailway-Z00004392.000WAGO GmbH & Co. KG-

Downloads

Environmental Product Compliance

Compliance Search Environmental Product Compliance 2022-112/136-000

Documentation Bid Text 2022-112/136-000 xml 4.17 KB 2022-112/136-000 docx 14.05.2019 15.44 KB ⊥

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 2022-112/136-000	EPLAN Data Portal 2022-112/136-000
	WSCAD Universe 2022-112/136-000
	ZUKEN Portal 2022-112/136-000

https://www.wago.com/2022-112/136-000



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.: 216-244

Item No.: 216-242

46228, Part 4/09.90; gray

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

Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-

sulated; electro-tin plated; electrolytic

copper; gastight crimped; acc. to DIN

Item No.: 216-264

Item No.: 216-262

46228, Part 4/09.90; gray

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

Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-

sulated; electro-tin plated; electrolytic

copper; gastight crimped; acc. to DIN

Item No.: 216-284

Part 4/09.90: red

Item No.: 216-243

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

Ferrule; Sleeve for 1 mm² / AWG 18; insu-

lated; electro-tin plated; electrolytic cop-

per; gastight crimped; acc. to DIN 46228,



Item No.: 216-246

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

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

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

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 Marking

1.1.3.1 Label

Item No.: 210-805 Labels; for Smart Printer; permanent ad-

hesive; 6 x 15 mm; white

Item No.: 210-805/000-002

Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; yellow

1.1.3.2 Marker



Item No.: 2009-115

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

4

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

https://www.wago.com/2022-112/136-000



1.1.3.3 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

1.1.4 Protective warning marker

1.1.4.1 Cover



Item No.: 2002-115

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



· 11 11 ·

Item No.: 249-117

Screwless end stop; 10 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray Item No.: 249-116

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

1.1.6 Tool

1.1.6.1 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.

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

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