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

11-pole; 4,00 mm²; green-yellow

https://www.wago.com/2022-111/000-016





Female connector, 2022 Series, green-yellow

Enjoy effortless electrical installations with this female connector (item number 2022-111/000-016). Pluggable rail-mount terminal blocks are hugely popular in switchgear and control systems, for example, in railroad technology. They combine the best of rail-mount terminal blocks and connectors to create the perfect solution. Variable wiring systems make pre-assembly easy, which leads to considerable time and cost savings in production, installation, operation, and maintenance. Ensure that the strip lengths are between 10 mm and 12 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. The item's dimensions are 57.2 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. Eleven potentials can connect eleven poles using the eleven clamping points The green-yellow housing is made of polyamide (PA66) for insulation. This female connector/socket is operated with an operating tool. You can connect copper conductors via 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.

Electrical data							
Ratings per	I	EC/EN 61984	1				
Overvoltage category	III	III	II				
Pollution degree	3	2	2				
Nominal voltage	-	-	-				
Rated surge voltage	-	-	-				
Rated current	-	-	-				

ection data				
Clamping units 11			Connection 1	
al number of potentials	11		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

Data Sheet | Item Number: 2022-111/000-016 https://www.wago.com/2022-111/000-016



Connection 1	Connection 1					
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	11					
Wiring direction	Front-entry wiring					

Physical data	
Width	57.2 mm / 2.252 inches
Height	40.5 mm / 1.594 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			

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	green-yellow
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.696 MJ
Weight	38.4 g

Environmental requirements			
Processing temperature	-35 +85 °C	Environmental Testing (Environm	nental Conditions)
Continuous operating temperature	-60 +105 °C	Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
		Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011-04
		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	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$

https://www.wago.com/2022-111/000-016



Environmenta	l Testing	(Environmental	Conditions))

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

Monitoring for contact faults/interrupti-

0110

Passed

Voltage drop measurement before and

after each axis

Passed

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

Test passed according to Section 9 of the standard

Extended test scope: Monitoring for contact faults/interruptions

Passed Passed

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

Passed Passed

Shock test
Shock form

Test passed according to Section 10 of

the standard

Shock duration

Half sine 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

 Product Group
 18 (X-COM-System)

 PU (SPU)
 25 pcs

 Packaging type
 Box

 Country of origin
 DE

 GTIN
 4045454705688

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Р	'roc	duc	ct	Cla	ารร	IŤI	cati	on

Customs tariff number

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

85366990990

https://www.wago.com/2022-111/000-016



Approvals / Certificates

General approvals



Standard **Certificate Name** Approval 2437422

C22.2 No. 158

DEKRA Certification B.V.

Declarations of conformity and manufacturer's declarations



Approval Standard Certificate Name

Railway WAGO GmbH & Co. KG Z00004392.000

Downloads

Environmental Product Compliance

Compliance Search

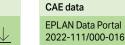
Environmental Product Compliance 2022-111/000-016



CAD/CAE-Data

CAD data

2D/3D Models 2022-111/000-016



WSCAD Universe 2022-111/000-016

7UKFN Portal 2022-111/000-016



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.: 216-262

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



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

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.: 216-264

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.: 216-284

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



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

https://www.wago.com/2022-111/000-016



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.: 2022-151

Locking lever; gray

Item No.: 2022-152 Locking lever; orange

1.1.4 Marking

1.1.4.1 Label

Item No.: 210-805

Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; 3000 pieces on roll; white

Item No.: 210-805/000-002

Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; 3000 pieces on roll; yellow

1.1.4.2 Marker



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

1.1.4.3 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

https://www.wago.com/2022-111/000-016



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; vellow

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

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

1.1.7.1 Strain relief plate



Item No.: 734-430

Strain relief plate; for female and male connectors; 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.

https://www.wago.com/2022-111/000-016



Locking system





Slide the locking lever into position.

Female plugs can be individually locked.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$