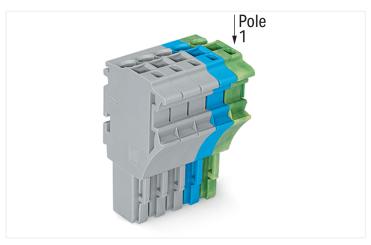
1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin spacing 5.2 mm;

5-pole; 4,00 mm²; gray/blue/green-yellow

https://www.wago.com/2022-105/000-038





Color: ■ gray/blue/green-yellow

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

This female connector (item number 2022-105/000-038) 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. Our pluggable rail-mount terminal block is rated for 690 V and is designed to handle a rated current of up to 24 A. 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®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, boasting a key feature: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. The dimensions are 26 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 five potentials / five poles using the five clamping points. The gray/blue/green-yellow housing is made of polyamide (PA66) for insulation. This female connector/socket is operated with an operating tool. The front-entry wiring allows you 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 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	C	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: 2022-105/000-038 https://www.wago.com/2022-105/000-038



Connection data			
Clamping units	5	Connection 1	
Total number of potentials 5	5	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; 1 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	5
		Wiring direction	Front-entry wiring

Physical data	
Width	26 mm / 1.024 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 angeliactions can be found have
	<u>Information on material specifications can be found here</u>
Color	gray/blue/green-yellow
Material group	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.277 MJ
Weight	16.3 g

https://www.wago.com/2022-105/000-038



Envir	conment	al requi	rements

Processing temperature -35 ... +85 °C **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 -

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

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 5 h Test directions

X, Y and Z axes X, Y and Z axes

Monitoring for contact faults/interrupti-Passed

Voltage drop measurement before and

Shock and vibration tests

after each axis

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

Extended test scope: Monitoring for contact faults/interruptions Extended test scope: Voltage drop mea-

surement before and after each axis

Shock test

Number of shocks per axis

Shock form Shock duration

Vibration and shock stress for rolling

stock equipment

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

10 min.

X, Y and Z axes

Passed

Test passed according to Section 9 of the standard Passed

Passed Passed Passed

Test passed according to Section 10 of the standard Half sine

30 ms 3 pos. und 3 neg.

Passed

Commercial data 18 (X-COM-System) **Product Group** PU (SPU) 50 pcs Box Packaging type Country of origin DE **GTIN** 4045454915582 Customs tariff number 85366990990

https://www.wago.com/2022-105/000-038



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
UL Underwriters Laboratories	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Z00004391.000

Downloads

Environmental Product Compliance

Compliance Search **Environmental Product** Compliance

2022-105/000-038

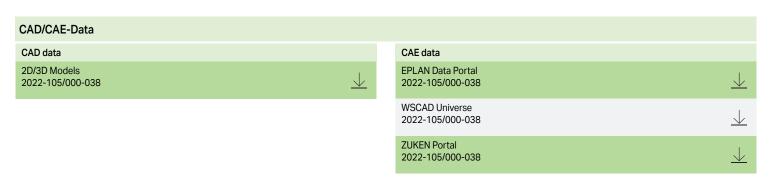


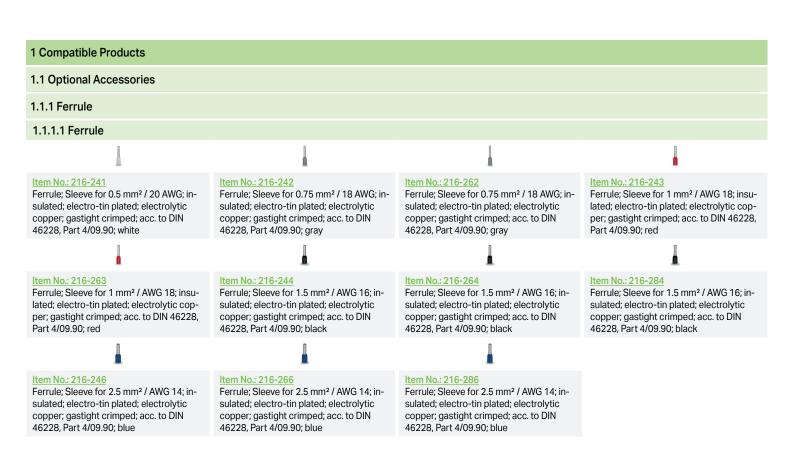
Documentation

Bid Text			
2022-105/000-038	16.05.2019	xml 4.22 KB	$\underline{\downarrow}$
2022-105/000-038	14.05.2019	docx 15.33 KB	$\underline{\downarrow}$

https://www.wago.com/2022-105/000-038







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

https://www.wago.com/2022-105/000-038



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; white

Item No.: 210-805/000-002

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

1.1.4.2 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

1.1.4.3 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

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/2022-105/000-038



1.1.6 Screwless end stop

1.1.6.1 Mounting accessories





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 DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.7 Strain relief

1.1.7.1 Strain relief plate



Item No.: 734-329

Strain relief plate; for female and male connectors; 25 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.

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

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