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

spacing 5.2 mm; 1-pole; 4,00 mm<sup>2</sup>; green-yellow

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Color: green-yellow

Female connector, 2022 Series, green-yellow

Seamless electrical installations are guaranteed with this female connector (item number 2022-187). 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. 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 outperforms the competition. 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. The dimensions are 5.2 x 40.5 x 22.4 mm (width x height x depth). Depending on the type of conductor, 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 green-yellow housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this female connector/socket. 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	1	EC/EN 61984	4
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	-	-
Rated surge voltage	-	-	-
Rated current	-	-	-

ection data				
mping units	1		Connection 1	
tal number of potentials	1		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

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 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
 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)	
	<u>Information on material specifications can be found here</u>
Color	green-yellow
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.066 MJ
Weight	3.6 g

Environmental requirements			
Processing temperature	-35 +85 °C	<b>Environmental Testing (Environm</b>	ental 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	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$	

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**Environmental 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-

ons

Passed

Voltage drop measurement before and

after each axis

Passed

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

the standard Passed

Extended test scope: Monitoring for contact faults/interruptions

Extended test scope: Voltage drop mea-

Passed a- Passed Passed

surement before and after each axis Shock test

Test passed according to Section 10 of

Test passed according to Section 9 of

the standard

Shock form Shock duration Half sine 30 ms

Number of shocks per axis

3 pos. und 3 neg.

Vibration and shock stress for rolling

stock equipment

Customs tariff number

Passed

Commercial data	
Product Group	18 (X-COM-System)
PU (SPU)	250 pcs
Packaging type	Bag
Country of origin	CN
GTIN	406696660135

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
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 Confor- mity 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 2022-187

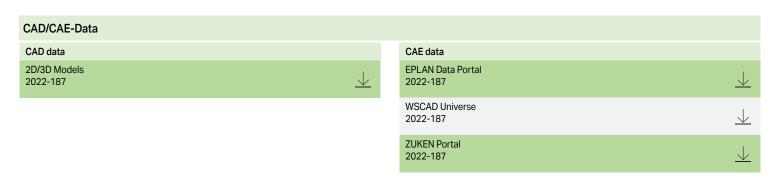


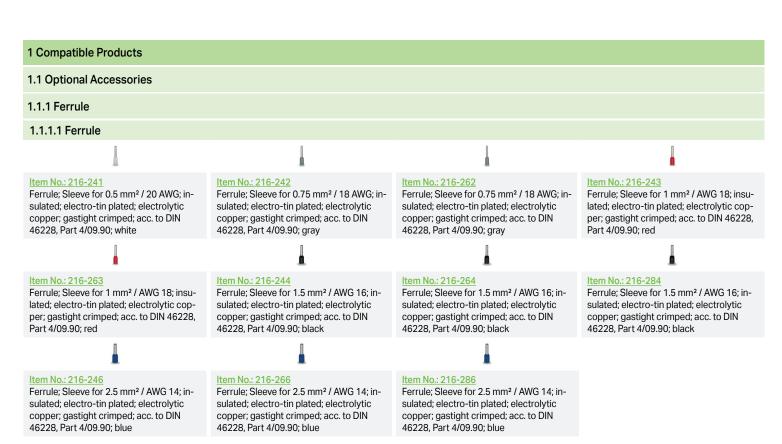
## Documentation

Bid Text			
2022-187	19.02.2019	xml 4.26 KB	$\underline{\downarrow}$
2022-187	14.05.2019	docx 16.13 KB	$\perp$

https://www.wago.com/2022-187







## 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 mm<sup>2</sup>; 5 pieces/ strip; dark gray

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## 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

#### 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

0

### 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

### 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 DINrail 35 x 15 and 35 x 7.5; gray

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#### 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.: 734-431

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



Item No.: 734-327

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



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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