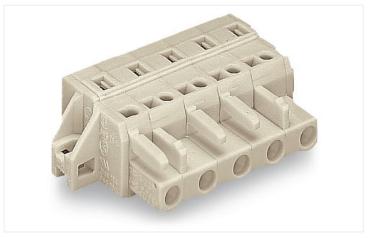
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; 100% protected against mismating; clamping collar; 2,50 mm²; light gray

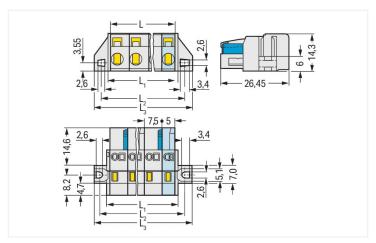


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Color: ■ light gray

Similar to illustration



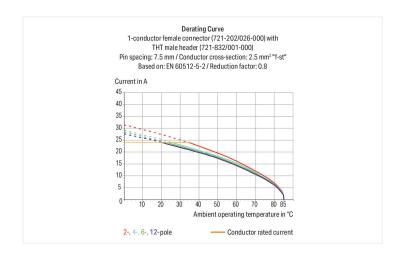
Dimensions in mm

L = (pole no. - 1) x pin spacing + 5 mm

L1 = L + 3 mm

L2 = L + 8.8 mm

L3 = L + 14.8 mm



- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- Integrated test ports
- 100% protected against mismating
- · Coding option available

Note	s
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Safety information

Variants:

The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Other pole numbers

Gold-plated or partially gold-plated contact surfaces

Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/.



Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	630 V	1000 V
Rated surge voltage	6 kV	6 kV	6 kV
Rated current	16 A	16 A	16 A

С	D
	_
-	300 V
-	10 A

Approvals per	UL 1977
Rated voltage	600 V
Rated current	15 A

Approvals per	CSA		
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Connection data			
Connection points	12	Connection 1	
Total number of potentials	12	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels 1	1	Actuation direction 1	Operation parallel to conductor entry
	Solid Fine-s ferrul Fine-s	Actuation direction 2	Operation perpendicular to conductor entry
		Solid conductor	0.08 2.5 mm² / 28 12 AWG
		Fine-stranded conductor	0.08 2.5 mm² / 28 12 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 1.5 mm <sup>2</sup>
		Fine-stranded conductor; with uninsulated ferrule	0.25 2.5 mm²
		Strip length	8 9 mm / 0.31 0.35 inches
	Pole number	12	
		Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	7.5 mm / 0.295 inches
Width	102.3 mm / 4.028 inches
Height	14.3 mm / 0.563 inches
Depth	26.45 mm / 1.041 inches

Mechanical data	echanical data	
Variable coding	Yes	
Mounting type	Mounting flange Feed-through mounting Panel mounting	
Anti-rotation protection	Yes	

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Plug-in connection	
Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes

Material data	
Note (material data)	<a href="https://www.wago.com/us/material-specifications">Information on material</a>
	specifications can be found here
Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.439 MJ
Weight	25.8 g

Environmental requirements	
Limit temperature range	-60 +85 °C
Processing temperature	-35 +60 °C

Commercial data	
Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-03-09
eCl@ss 9.0	27-44-03-09
ETIM 8.0	EC002638
ETIM 7.0	EC002638
PU (SPU)	10 pcs
Packaging type	Вох
Country of origin	DE
GTIN	4044918381857
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

## Approvals / Certificates

## General approvals





Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-39756/A1
CSA DEKRA Certification B.V.	C22.2	1466354
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-121453
UR Underwriters Laboratories Inc.	UL 1977	E 45171

## General approvals

Underwriters Laboratories

UL 1059

E45172

https://www.wago.com/721-212/031-000



#### Declarations of conformity and manufacturer's declarations



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

#### Approvals for marine applications



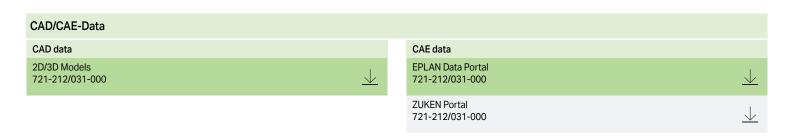




Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
DNV DNV GL SE	-	TAE000016Z

# **Downloads Environmental Product Compliance** Compliance Search **Environmental Product** Compliance 721-212/031-000

Documentation			
Additional Information			
Technical Section	03.04.2019	pdf 2010.85 KB	$\underline{\downarrow}$



# 1 Compatible Products

## 1.1 System counterpart

#### 1.1.1 Male connector/plug









#### Item No.: 723-612

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; 100% protected against mismating; 2,50 mm<sup>2</sup>; light gray

#### Item No.: 721-842/001-000

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismating; Pin spacing 7.5 mm; 12-pole; light

#### Item No.: 721-242/001-000

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismating; Pin spacing 7.5 mm; 12-pole; light



#### 1.2 Optional Accessories

#### 1.2.1 Cover

#### 1.2.1.1 Cover



#### Item No.: 231-668

Lockout caps; for covering unused clamping units; gray

#### 1.2.2 Ferrule 1.2.2.1 Ferrule Item No.: 216-301 Item No.: 216-321 Item No.: 216-151 Item No.: 216-131 Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24: Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; in-Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; in-Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; sulated; electro-tin plated; yellow sulated; electro-tin plated; yellow uninsulated; electro-tin plated uninsulated; electro-tin plated; silver-co-Item No.: 216-302 Item No.: 216-322 Item No.: 216-132 Item No.: 216-152 Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; in-Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; in-Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; sulated; electro-tin plated; light turquoise sulated; electro-tin plated; light turquoise uninsulated; electro-tin plated uninsulated; electro-tin plated Item No.: 216-241 Item No.: 216-201 Item No.: 216-221 Item No.: 216-141 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-Ferrule; Sleeve for 0.5 mm2 / 20 AWG; unsulated; electro-tin plated; electrolytic sulated; electro-tin plated; white sulated; electro-tin plated; white insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white 46228, Part 1/08.92 Item No.: 216-101 Item No.: 216-242 Item No.: 216-262 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; un-Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; un-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic insulated; electro-tin plated; silver-coloinsulated; electro-tin plated; silver-colosulated; electro-tin plated; electrolytic red red copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray 46228, Part 4/09.90; gray Item No.: 216-202 Item No.: 216-222 Item No.: 216-142 Item No.: 216-102 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; sulated; electro-tin plated; gray sulated; electro-tin plated; gray uninsulated; electro-tin plated; electrolyuninsulated; electro-tin plated; silver-cotic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 Item No.: 216-122 Item No.: 216-243 Item No.: 216-263 Item No.: 216-203 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; Ferrule; Sleeve for 1 mm2 / AWG 18; insu-Ferrule; Sleeve for 1 mm2 / AWG 18; insu-Ferrule; Sleeve for 1 mm2 / AWG 18; insuuninsulated; electro-tin plated; silver-colated; electro-tin plated; electrolytic coplated; electro-tin plated; electrolytic coplated; electro-tin plated; red per; gastight crimped; acc. to DIN 46228, per; gastight crimped; acc. to DIN 46228, lored Part 4/09.90: red Part 4/09.90: red

#### Item No.: 216-223

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red

#### Item No.: 216-103

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated

#### Item No.: 216-143

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

#### Item No.: 216-123

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored

#### Item No.: 216-204

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

#### Item No.: 216-224

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

#### Item No.: 216-244

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

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#### 1.2.2.1 Ferrule

#### Item No.: 216-284

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

#### Item No.: 216-124

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated

#### Item No.: 216-144

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

#### Item No.: 216-104

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated; silver-colored

#### Item No.: 216-106

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; uninsulated; electro-tin plated; silver-colored

#### 1.2.3 Insulation stop

#### 1.2.3.1 Insulation stop







#### Item No.: 231-673

Insulation stop; 0.08-0.2 mm<sup>2</sup> / 0.2 mm<sup>2</sup> "s"; white

#### Item No.: 231-674

Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; light gray

### Item No.: 231-675

Insulation stop; 0.75 - 1 mm<sup>2</sup>; dark gray

### 1.2.4 Marking

#### 1.2.4.1 Marking strip



Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

#### Item No.: 210-332/750-020

Marking strips; as a DIN A4 sheet; MAR-KED; 1-20 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

## 1.2.5 Test and measurement

#### 1.2.5.1 Testing accessories





#### Item No.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red

## Item No.: 231-662

Test plugs for female connectors; for 7.5 mm and 7.62 mm pin spacing; 2,50 mm<sup>2</sup>; light gray

#### 1.2.6 Tool

#### 1.2.6.1 Operating tool

Combination operating tool; red

Item No.: 231-231







# Item No.: 231-291

Operating tool; made of insulating material; 1-way; loose; red



#### Item No.: 231-131

Operating tool; made of insulating material; 1-way; loose; white



Operating tool; natural

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#### **Installation Notes**

#### **Conductor termination**



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



Inserting a conductor via operating tool.

## Coding



Coding a female connector by removing coding finger(s).

#### **Testing**



Testing perpendicular to conductor entry with 2 or 2.3 mm Ø test plug – female connector with CAGE CLAMP® – via integrated test ports

#### Installation



Male connector with strain relief plate



Strain relief housing shown with a male connector equipped with CAGE CLAMP®  $\,$ 

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

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

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