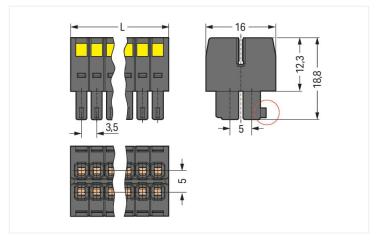
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 18-pole; 100% protected against mismating; direct marking; 1,50 mm²; black



https://www.wago.com/713-1109/000-9037



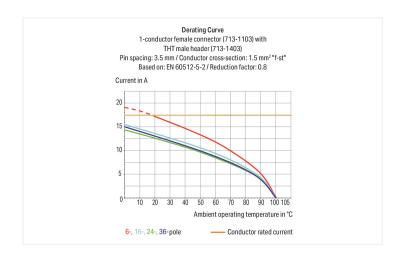
Similar to illustration



The MCS - MULTI CONNECTION SYSTEM includes connectors without breaking capaci-

Dimensions in mm

L = [(pole no./2) - 1] x pin spacing + 5.2 mmCoding finger (red circle)



• Universal connection for all conductor types

Notes

Safety information

- Unique, compact, double-row connector system for conductor cross-sections up to 1.5 mm²
- High-density, wire-to-board connections in very confined spaces
- Centered strain relief plate anchors conductors, while acting as convenient connection and disconnection handle. It also provides easy access to operating slots - even when wired.
- Coding fingers provide 100% protection against mismating

	ty 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.
Variants:	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/.

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Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	80 V	160 V	250 V
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV
Rated current	10 A	10 A	10 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	50 V	-
Rated current	10 A	10 A	-

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

Connection data			
Connection points	18	Connection 1	
Total number of potentials	18	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels 2	Actuation direction 1	Operation perpendicular to conductor entry	
		Solid conductor	0.08 1.5 mm² / 28 16 AWG
		Fine-stranded conductor	0.08 1.5 mm² / 28 16 AWG
	Fine-stranded conductor; with insulated ferrule	0.25 1 mm ²	
	Fine-stranded conductor; with uninsulated ferrule	0.25 1 mm²	
		Strip length	6 7 mm / 0.24 0.28 inches
		Pole number	18
		Conductor entry direction to mating direction	0°

Physical data		
Pin spacing	3.5 mm / 0.138 inches	
Width	33 mm / 1.299 inches	
Height	18.8 mm / 0.74 inches	
Depth	16 mm / 0.63 inches	

Mechanical data	
Variable coding	Yes
Anti-rotation protection	Yes

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

https://www.wago.com/713-1109/000-9037



Material data	
Note (material data)	Information on material
	specifications can be found here
Color	black
Material group	II .
Insulation material	Glass fiber-reinforced polyamide (PA66 GF)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.137 MJ
Weight	9.2 g

Environmenta	I requirements
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Limit temperature range $-60 \dots +100 \, ^{\circ} \mathrm{C}$ Processing temperature $-35 \dots +60 \, ^{\circ} \mathrm{C}$

Commercial data	
Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	25 pcs
Packaging type	Box
Country of origin	PL
GTIN	4050821176633
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant,No Exemption

Approvals / Certificates

General approvals



Inc.

Approval	Standard	Certificate Name
UR Underwriters Laboratories	UL 1059	E45172

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Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance

Documentation Additional Information Technical Section pdf 03.04.2019 2010.85 KB

1 Compatible Products

713-1109/000-9037

1.1 System counterpart

1.1.1 Male connector/plug



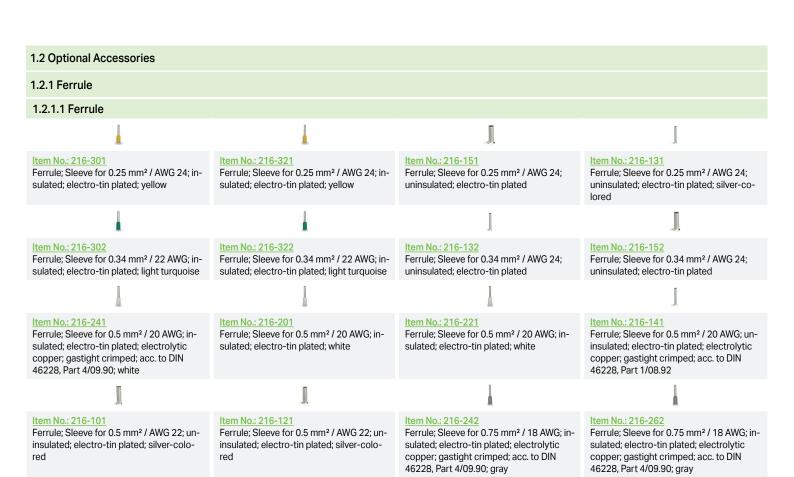


Item No.: 713-1429

THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismating; Pin spacing 3.5 mm; 18-pole; black

Item No.: 713-1409

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Pin spacing 3.5 mm; 18-pole; black



https://www.wago.com/713-1109/000-9037



1.2.1.1 Ferrule

Item No.: 216-202
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-222

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-142

Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item No.: 216-102

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored

Item No.: 216-122

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-co-lored

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.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-103

Ferrule; Sleeve for 1 mm² / 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 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored

1.2.2 Stickers with operating instructions

1.2.2.1 Stickers with operating instructions



Item No.: 210-493

Stickers for operating instructions

1.2.3 Strain relief

1.2.3.1 Strain relief plate



Item No.: 713-127

Strain relief plate; for female connectors; 25 mm wide; 1 part; Pin spacing 3.5 mm; black

1.2.4 Tool

1.2.4.1 Operating tool



Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Item No.: 210-647

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

https://www.wago.com/713-1109/000-9037



Installation Notes

Conductor termination



Inserting a conductor via (2.5 x 0.4) mm screwdriver.

Locking system



Lever as a lock – when closed, female connector is locked.



Lever as a disconnection aid – when opened, female connector is disconnected.
Rotating the lever lifts the female connector out of the male header.



Screw interlock can only be disconnected using a tool.

Coding



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

Strain relief



Strain relief plate for field assembly



Centered strain relief plate anchors conductors for easy disconnection.

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