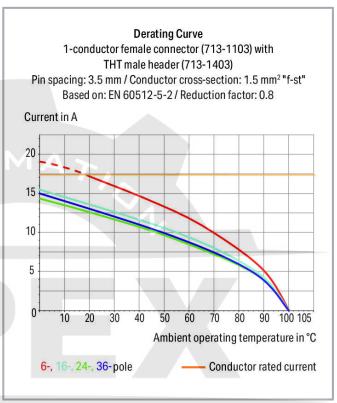
1-conductor female connector, 2-row; 100% protected against mismating; Levers; direct marking; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 10-pole; 1,50 mm<sup>2</sup>; black



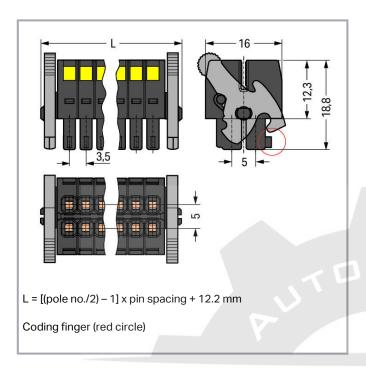
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 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 





## Item description

- Universal connection for all conductor types
- Unique, compact, double-row connector system for conductor cross-sections up to 1.5 mm<sup>2</sup>
- 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

#### Safety information 1:

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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

#### Data

### Electrical data

### **IEC Approvals**

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	80 V
Rated surge voltage (III/3)	2.5 kV

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Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Nominal voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV
Rated current	10 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

# **UL Approvals**

Approvals per		UL 1059	
Rated voltage UL (Use Group B)		300 V	
Rated current UL (Use Group B)		10 A	
Rated voltage UL (Use Group C)		50 V	
Rated current UL (Use Group C)	・イト	10 A	

## **CSA Approvals**

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A

## Connection data

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
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 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 1 mm²
Strip length	6 7 mm / 0.24 0.28 inch
Pole No.	10
Total number of connection points	10
Total number of potentials	10
Number of connection types	1
Number of levels	2
Conductor entry direction to mating direction	0°

# Physical data

Pin spacing 3.5 mm / 0.138 inch

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Width	26 mm / 1.024 inch
Height	18.8 mm / 0.74 inch
Depth	16 mm / 0.63 inch

# Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes
Locking of plug-in connection	Locking lever

## Material data

Color	black
Material group	
Insulation material	Glass fiber-reinforced polyamide (PA66 GF)
Flammability class per UL94	VO
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	tin-plated
Fire load	0.085 MJ
Weight	6.3 g

# **Environmental requirements**

Limit temperature range	-60 +100 °C	

## Commercial data

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	PL
GTIN	4050821177050
Customs tariff number	8536694040

# Approvals / Certificates

## Country specific Approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	CCA	EN 61984	2169947.01
	DEKRA Certification B.V.		

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

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	CCA DEKRA Certification B.V.	IEC 61984	NL-30980
UL-Approvals	S		
			Certificate
Logo	Approval	Additional Approval Text	name
	UR	UL 1059	E45172-
$\mathcal{A}$	Underwriters Laboratories Inc.		19950922

### Counterpart



Item no.713-1425/037-000

THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 10-pole; black

www.wago.com/713-1425 /037-000



Item no.713-1405/037-000

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 10-pole; black

www.wago.com/713-1405 /037-000

#### Optional accessories

#### Strain relief

<b>15.</b>	Item no.: 713-130 Strain relief plate; black	www.wago.com/713-130
Tools	The second secon	
1	Item no.: 210-647 Operating tool; Blade: $2.5 \times 0.4$ mm; with a partially insulated shaft; multicoloured	www.wago.com/210-647
1	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719
Ferrules		
	Item no.: 216-101 Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-101
	Item no.: 216-102 Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-102
	Item no.: 216-103 Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated	www.wago.com/216-103

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	Item no.: 216-121 Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-121
	Item no.: 216-122 Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-122
I	Item no.: 216-123 Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-123
1	Item no.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-131
Ţ	Item no.: 216-132 Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-132
Ţ	Item no.: 216-141 Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-141
1	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	www.wago.com/216-142
J	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	www.wago.com/216-143
	Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-151
	Item no.: 216-152 Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-152
1	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-201
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203
1	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-221
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
1	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	www.wago.com/216-241
	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight	www.wago.com/216-242
Subject to	o changes. Please also observe the further product documentation!	

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	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	www.wago	.com/216-243
	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	www.wago.com/216-262	
	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	www.wago.com/216-263	
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301	
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green	www.wago.com/216-302	
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-321	
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green	www.wago.com/216-322	
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## **Installation Notes**

Conductor termination

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

1-conductor female connector, 2-row; 100% protected against mismating; Levers;

direct marking; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 10-pole; 1,50 mm<sup>2</sup>; black

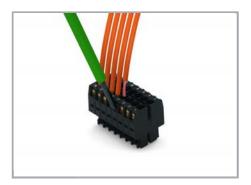
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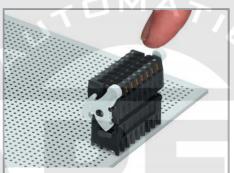


Inserting a conductor via  $(2.5 \times 0.4)$  mm screwdriver.

#### Locking lever



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).

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

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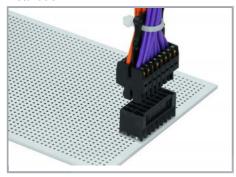
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#### Installation



Centered strain relief plate anchors conductors for easy disconnection.

# **Product family**

<i>MCS</i> MINI HD
Show all products from the family



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