1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; 100% protected against mismating; Levers; direct marking; 1,50 mm²; black

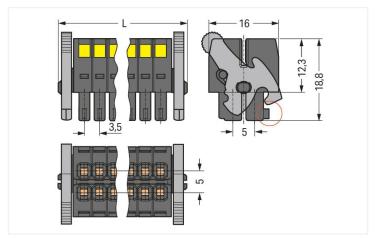


https://www.wago.com/713-1103/037-9037

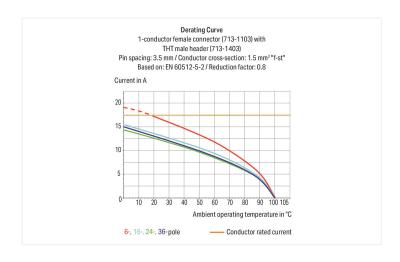


Color: 
black

Similar to illustration



Dimensions in mm
L = [(pole no./2) – 1] x pin spacing + 12.2 mm
Coding finger (red circle)



- 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

N	ot	es
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Safety information

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.

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/.



Electrical data			
Ratings per	IEG	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	6	Connection 1	
Total number of potentials	6	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 mm²
		Fine-stranded conductor; with uninsulated ferrule	0.25 1 mm²
		Strip length	6 7 mm / 0.24 0.28 inches
		Pole number	6
		Conductor entry direction to mating direction	0°

Physical data		
Pin spacing	3.5 mm / 0.138 inches	
Width	19 mm / 0.748 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
Locking of plug-in connection	Locking lever

# Data Sheet | Item Number: 713-1103/037-9037 https://www.wago.com/713-1103/037-9037



Material data	
Note (material data)	
	<a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a>
Color	black
Material group	
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	0.057 MJ
Weight	4.3 q

Environmental requirements	
Limit temperature range	-60 +100 °C
Processing temperature	-35 +60 °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)	50 pcs
Packaging type	Вох
Country of origin	PL
GTIN	4050821177197
Customs tariff number	85366990990

Environmental Product Compliance	
CAS-No.	131651-65-5 144317-44-2 220133-51-7 220689-12-3 25628-08-4 29420-49-3 375-73-5 503155-89-3 507453-86-3 68259-10-9
REACH Candidate List Substance	Perfluorobutane sulfonic acid (PFBS) and its salts
RoHS Compliance Status	Compliant, With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	33c46dd3-a587-4b0e-abad-1f36e12106b8
SCIP notification number (Belgium)	d4eabebf-e74f-46c2-9272-44b906621695
SCIP notification number (Bulgaria)	db67462e-8b10-4a55-ae8f-0fa2c3b38dfa
SCIP notification number (Czech Republic)	e1932da4-f7ec-489e-881d-07c0f0202231
SCIP notification number (Denmark)	c66e10f5-f3ae-4a73-8651-db2503253c15
SCIP notification number (Finland)	ce3a6374-48df-4000-a278-09c5e05f2db8
SCIP notification number (France)	718788c2-98eb-4e9d-9b61-7474db3ef6e1
SCIP notification number (Germany)	ff48b513-d096-4cae-bb3b-a2987cb00c24
SCIP notification number (Hungary)	d64ac83c-41a3-42d3-8117-9bb7530c89dc
SCIP notification number (Italy)	fde37da7-1a23-461c-84aa-3add58afef1a
SCIP notification number (Netherlands)	a989918e-7c50-4e95-bb2f-111bc6840d24
SCIP notification number (Poland)	8df1a20f-7ae3-4dd0-b239-013ac218582c

https://www.wago.com/713-1103/037-9037



#### **Environmental Product Compliance**

SCIP notification number (Romania)

SCIP notification number (Sweden)

8cdaa90d-5aa3-495e-aa2e-f5b65007a6ac 1d00bcfb-f4ee-480b-a150-cae3a3c3097d

#### Approvals / Certificates

#### General approvals



Approval Standard Certificate Name

UL 1059

UK

Underwriters Laboratories Inc.

#### **Downloads**

#### **Environmental Product Compliance**

Compliance Search

Environmental Product

Compliance 713-1103/037-9037



### Documentation

#### **Additional Information**

**Technical Section** 

03.04.2019

pdf

. 2010.85 KB

E45172



#### 1 Compatible Products

#### 1.1 System counterpart

# 1.1.1 Male connector/plug





#### Item No.: 713-1423/037-000

THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 6-pole; black

# Item No.: 713-1403/037-000

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 6-pole; black

https://www.wago.com/713-1103/037-9037



#### 1.2 Optional Accessories 1.2.1 Ferrule 1.2.1.1 Ferrule Item No.: 216-321 Item No.: 216-301 Item No.: 216-151 Item No.: 216-131 Ferrule; Sleeve for 0.25 mm2 / AWG 24; in-Ferrule; Sleeve for 0.25 mm2 / AWG 24; in-Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; Ferrule; Sleeve for 0.25 mm2 / AWG 24; sulated; electro-tin plated; yellow sulated; electro-tin plated; yellow uninsulated; electro-tin plated uninsulated; electro-tin plated; silver-colored 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 mm<sup>2</sup> / 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.: 216-121 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-colosulated; electro-tin plated; electrolytic insulated; electro-tin plated; silver-colored 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.: 216-222 Item No.: 216-202 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 mm2 / 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 lored 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 mm<sup>2</sup> / AWG 18; insu-Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insu-Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insuuninsulated; electro-tin plated; silver-colated; electro-tin plated; electrolytic coplated; electro-tin plated; electrolytic coplated; electro-tin plated; red lored per; gastight crimped; acc. to DIN 46228, per; gastight crimped; acc. to DIN 46228, Part 4/09.90; red Part 4/09.90; red Item No.: 216-103 Item No.: 216-223 Item No.: 216-143 Item No.: 216-123 Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; unin-Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; unin-Ferrule; Sleeve for 1 mm2 / AWG 18; insu-Ferrule: Sleeve for 1 mm2 / AWG 18: uninlated; electro-tin plated; red sulated; electro-tin plated sulated; electro-tin plated; electrolytic sulated; electro-tin plated; silver-colored copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

#### 1.2.2 Stickers with operating instructions

#### 1.2.2.1 Stickers with operating instructions



Item No.: 210-493

Stickers for operating instructions

https://www.wago.com/713-1103/037-9037



#### 1.2.3 Strain relief

# 1.2.3.1 Strain relief plate



#### Item No.: 713-126

Strain relief plate; for female connectors; 11 mm wide; 1 part; Pin spacing 3.5 mm; black

#### 1.2.4 Tool

# 1.2.4.1 Operating tool



#### Item No.: 210-719

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

#### **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



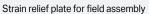
Coding a female connector by removing coding finger(s).

https://www.wago.com/713-1103/037-9037



# Strain relief







Centered strain relief plate anchors conductors for easy disconnection.

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