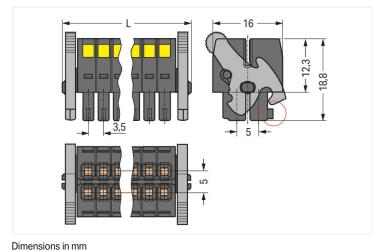
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 100% protected against mismating; Levers; 1,50 mm<sup>2</sup>; black



https://www.wago.com/713-1104/037-000

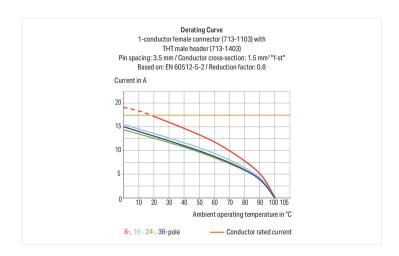




Other versions (or variants) can be requested from WAGO Sales or configured at https://

Similar to illustration

L = [(pole no./2) - 1] x pin spacing + 12.2 mmCoding finger (red circle)



• Universal connection for all conductor types

**Notes** 

- 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	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

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	-	-

nection data	
nnection points	8
tal number of potentials	8
mber of connection types	1
flevels	2

Physical data	
Pin spacing	3.5 mm / 0.138 inches
Width	22.5 mm / 0.886 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: 713-1104/037-000 https://www.wago.com/713-1104/037-000



Material data	
Note (material data)	Information on makerial anguifications can be found have
	<u>Information on material specifications can be found here</u>
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
Fire load	0.07 MJ
Weight	5.3 g

Environmental	radiliramante
	i cuuli cilicilis

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	4045454806163
Customs tariff number	85366990990

Environmental Product Compliance		
REACH Candidate List Substance	Perfluorobutane sulfonic acid (PFBS) and its salts	
RoHS Compliance Status	Compliant,No Exemption	
SCIP notification number (Austria)	3c6e98b4-7ea2-4aa3-9a5e-95985049419c	
SCIP notification number (Belgium)	ff340a99-5f10-4daa-b851-997c81e612cd	
SCIP notification number (Bulgaria)	8b29fa45-b73d-46cf-ad71-3a539070ee72	
SCIP notification number (Czech Republic)	3a60b7aa-a455-4545-9fc8-d9f0891e01a7	
SCIP notification number (Denmark)	da63c644-f8e8-442b-9ec8-885f95e5a591	
SCIP notification number (Finland)	ce9cd69d-0c45-435c-95ed-c08905f29625	
SCIP notification number (France)	566f9e5f-6c04-4dec-9b43-b89899b933b6	
SCIP notification number (Germany)	d1909faf-db49-4d7e-93e9-75d0b2f47926	
SCIP notification number (Hungary)	b365adb7-98d7-4711-a365-377ec2f6da09	
SCIP notification number (Italy)	1226f3df-6e1d-4edc-b144-161c8bdc5440	
SCIP notification number (Netherlands)	86cebc42-d697-44d3-ae1e-1c9e4f4fca14	
SCIP notification number (Poland)	1624e375-926e-4a46-857a-1be7ea2504a2	
SCIP notification number (Romania)	71a6df54-e0ed-4ae0-970c-fa105ba01969	
SCIP notification number (Sweden)	2d03f60d-3410-4476-8206-d54238e49e76	

https://www.wago.com/713-1104/037-000



## Approvals / Certificates

## General approvals







Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-102427
CSA CSA Group	C22.2	2315087
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-133740
UL Underwriters Laboratories Inc.	UL 1059	UL-US-L45172-6187124- 22905991-1

#### **Downloads**

## **Environmental Product Compliance**

## Compliance Search **Environmental Product**

Compliance 713-1104/037-000



#### **Documentation**

#### Additional Information

**Technical Section** 

03.04.2019

. 2027.26 KB



#### CAD/CAE-Data

## CAD data

2D/3D Models 713-1104/037-000



## CAE data

**ZUKEN Portal** 713-1104/037-000



## 1 Compatible Products

## 1.1 System counterpart

## 1.1.1 Male connector/plug





THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismating; Levers; in tape-and-reel packaging; Pin spacing 3.5 mm; 8-pole;



Item No.: 713-1424/116-000

THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 8-pole; black



## Item No.: 713-1404/116-000/997-406

THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Levers; in tape-andreel packaging; Pin spacing 3.5 mm; 8pole; black



## Item No.: 713-1404/116-000

THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 8pole; black

https://www.wago.com/713-1104/037-000



#### 1.1.1 Male connector/plug



#### Item No.: 713-1424/037-000

THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 8-pole; black

## N. Links

Item No.: 713-1404/037-000
THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Levers; Pin spacing 3.5 mm; 8-pole; black

## Item No.: 713-1464/037-000

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; with orientation nose; Levers; Pin spacing 3.5 mm; 8-pole; black

#### 1.2 Optional Accessories

#### 1.2.1 Ferrule

#### 1.2.1.1 Ferrule



Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

#### Item No.: 216-321

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

#### Item No.: 216-151

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

#### Item No.: 216-131

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored

#### Item No.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

#### Item No.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

#### Item No.: 216-132

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

#### Item No.: 216-152

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

#### 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

#### Item No.: 216-201

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

#### Item No.: 216-221

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white

#### 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

## Item No.: 216-101

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

#### Item No.: 216-121

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

## Item No.: 216-242

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

#### 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

#### Item No.: 216-202

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

#### Item No.: 216-222

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; 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 mm<sup>2</sup> / 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



## 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.: 713-126

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.

https://www.wago.com/713-1104/037-000



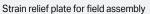
## Coding



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

## Strain relief







Centered strain relief plate anchors conductors for easy disconnection.

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

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

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