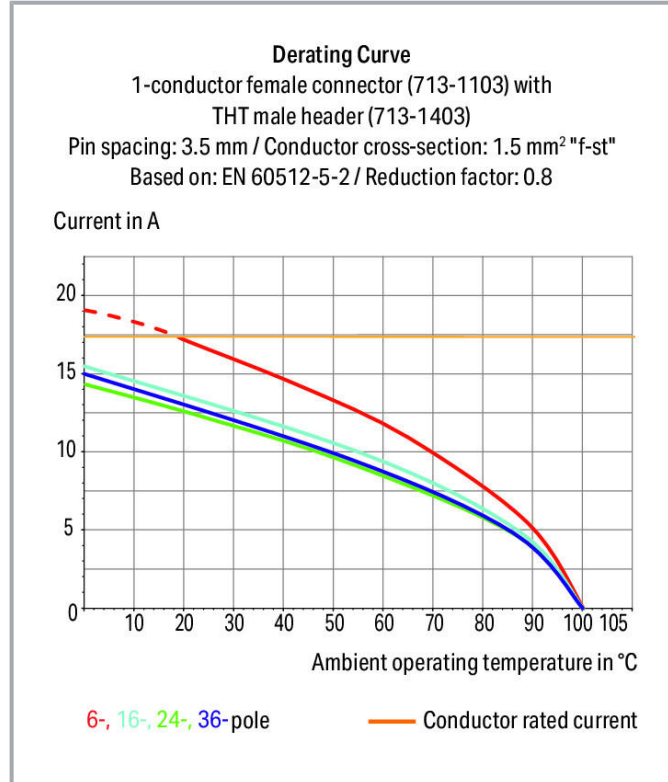
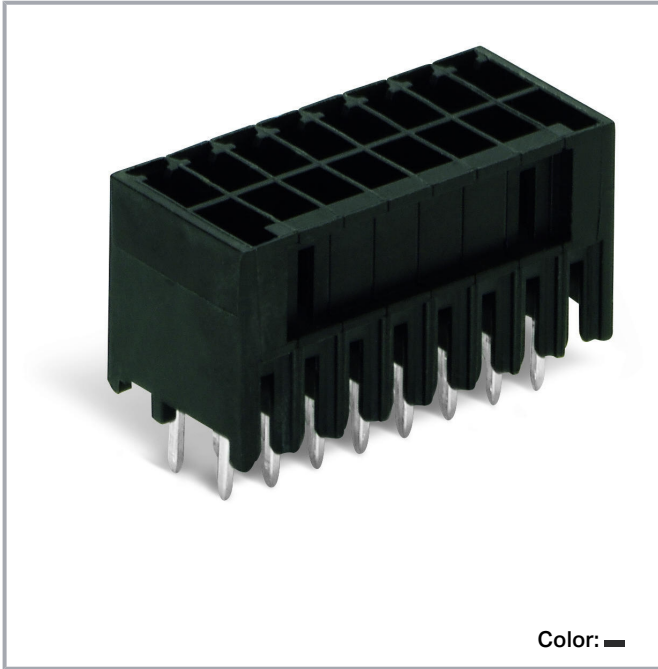


**Data sheet | Item number: 713-1408**

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 16-pole; black



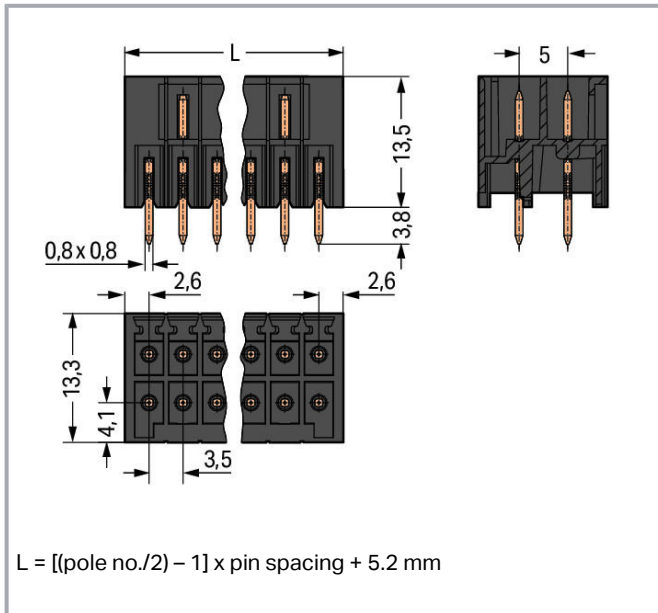
[www.wago.com/713-1408](http://www.wago.com/713-1408)



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

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Item description

- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Header housing is molded of THT-compatible insulation material for lead-free reflow soldering
- Separated pin slots prevent damage and make the headers touch-proof when unplugged
- 100% protected against mismatching
- Coding option available

## 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

### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	80 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

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

WAGO Kontakttechnik GmbH & Co. KG  
 Hansastr. 27  
 32423 Minden  
 Phone: +49571 887-0 | Fax: +49571 887-169  
 Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
 We are always happy to take your call at +49 (571) 887-44222.



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

### Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group C)	50 V
Rated current UL (Use Group C)	10 A

### Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	12 A

### Connection data

Pole No.	16
Total number of potentials	16
Number of connection types	1
Number of levels	2

### Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	29.5 mm / 1.161 inch
Height	17.3 mm / 0.681 inch
Height from the surface	13.5 mm / 0.531 inch
Depth	13.3 mm / 0.524 inch
Solder pin length	3.8 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter with tolerance	1.2 <sup>(+0.1)</sup> mm

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB

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

Mismating protection	Yes
Mating direction to the PCB	90°
Locking of plug-in connection	Without

### PCB contact

PCB Contact	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

### Material data

Color	black
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.088 MJ
Weight	4.3 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	4045454700034
Customs tariff number	85366990990

### Approvals / Certificates

#### Country specific Approvals

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


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

CCA DEKRA Certification B.V.	IEC 61984	NL-30980
---------------------------------	-----------	----------



CSA DEKRA Certification B.V.	C22.2	2315087
---------------------------------	-------	---------

#### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1059	E45172-19950922

#### Counterpart



<b>Item no.713-1108</b> 1-conductor female connector, 2-row; 100% protected against mismatching; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 16-pole; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1108">www.wago.com/713-1108</a>
---	--



<b>Item no.713-1108/000-9037</b> 1-conductor female connector, 2-row; 100% protected against mismatching; direct marking; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 16-pole; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1108/000-9037">www.wago.com/713-1108/000-9037</a>
--	--



<b>Item no.713-1108/000-047</b> 1-conductor female connector, 2-row; 100% protected against mismatching; direct marking; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 16-pole; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1108/000-047">www.wago.com/713-1108/000-047</a>
---	--



<b>Item no.713-1108/033-047</b> 1-conductor female connector, 2-row; 100% protected against mismatching; Strain relief plate; direct marking; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 16-pole; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1108/033-047">www.wago.com/713-1108/033-047</a>
--	--



<b>Item no.713-1108/033-9037</b> 1-conductor female connector, 2-row; 100% protected against mismatching; Strain relief plate; direct marking; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 16-pole; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1108/033-9037">www.wago.com/713-1108/033-9037</a>
---	--

#### Optional accessories

##### Coding

 <b>Item no.: 714-101</b> Coding key; orange	<a href="http://www.wago.com/714-101">www.wago.com/714-101</a>
--	--

#### Downloads

##### Documentation

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



**Additional Information**

Technical explanations

2019 Apr 3

pdf  
2.0 MB

[Download](#)

---

**CAD/CAE-Data**

**PCB Design**

Symbol and Footprint 713-1408

[URL](#)

[Download](#)

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

**Supported formats:**

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

---

**CAE data**

ZUKEN Portal 713-1408

[URL](#)

[Download](#)

---

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

---

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

## CAD data

2D/3D Models 713-1408

[URL](#)

[Download](#)

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 713-1408

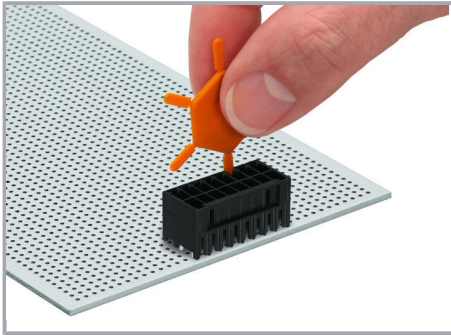
[URL](#)

[Download](#)

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 16-pole; black

## Installation Notes

### Coding



Coding a male header by inserting a coding pin.

## Product family

[\*MCS\* MINI HD](#)

[Show all products from the family](#)

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