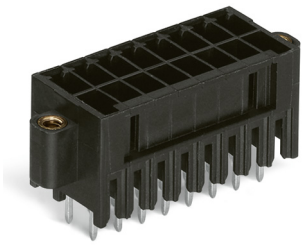
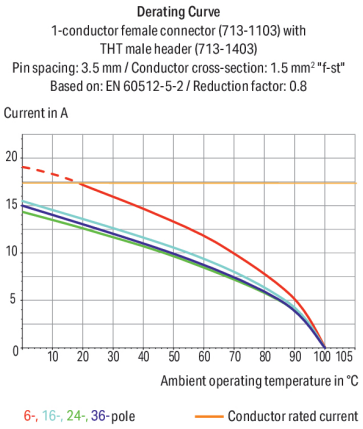
Data Sheet | Item Number: 713-1410/107-000

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mis-mating; Threaded flange; Pin spacing 3.5 mm; 20-pole; black

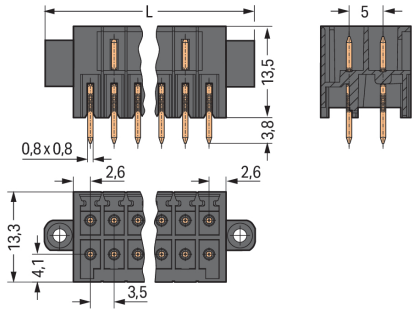
https://www.wago.com/713-1410/107-000

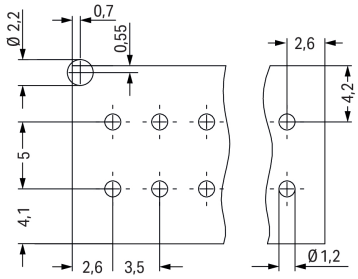




Color: ■ black

Similar to illustration





Dimensions in mm
L = [(pole no./2) – 1] x pin spacing + 13.6 mm

Male connector, 713 Series, solder pin dimensions 0.8 x 0.8 mm

Enjoy easy electrical installations with this male connector (item number 713-1410/107-000). The dimensions are (45.1 x 17.3 x 13.3) mm (width x height x depth).

The contact surface is coated with tin. THT is used to solder the pcb connector.

Notes

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 Other solder pin lengths 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	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	80 V	160 V	250 V
Rated impulse withstand voltage	2.5 kV	2.5 kV	2.5 kV
Rated current	10 A	10 A	10 A

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	150 V	50 V	-
Rated current	10 A	10 A	-

Approvals per	CSA		
Use group	B	C	D
Rated voltage	150 V	-	-
Rated current	12 A	-	-

Connection Data

Total number of potentials	20
Number of connection types	1
Number of levels	2

Connection 1

Pole number	20

Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	45.1 mm / 1.776 inches
Height	17.3 mm / 0.681 inches
Height from the surface	13.5 mm / 0.531 inches
Depth	13.3 mm / 0.524 inches
Solder pin length	3.8 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter	$1.2^{(+0.1)}$ mm

Mechanical data

Variable coding	Yes
Anti-rotation protection	Yes

Continued on next page

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Mating direction to the PCB	90 °
Locking of plug-in connection	Threaded flange

PCB contact

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

Material data

Note (material data)	Information on material specifications can be found here
Color	black
Material group	I
Insulation material (main housing)	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E_{Cu})
Contact Plating	Tin
Fire load	0.054 MJ
Weight	5.8 g

Environmental requirements

Limit temperature range	-60 … +100 °C
Processing temperature	-35 … +60 °C

Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	20 pcs
Packaging type	Box
Country of origin	PL
GTIN	4045454808990
Customs tariff number	85366930000

Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 9.0	EC002637
ETIM 10.0	EC002637
ECCN	NO US CLASSIFICATION

Continued on next page

Environmental Product Compliance

RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	4492ef4b-f600-447c-8e19-af5e66dc2b4c
SCIP notification number (Belgium)	26859020-3602-43a6-9ce1-ff839b1d8b08
SCIP notification number (Bulgaria)	22934c94-411e-476b-aff8-3fec615d47f1
SCIP notification number (Czech Republic)	01723952-fd9c-4f48-b098-06c9325c3f4b
SCIP notification number (Denmark)	d3d198f5-9f09-4793-bfd8-9220adecfe2c
SCIP notification number (Finland)	e8c7b4aa-a3d1-408c-ad27-4630aa6336c1
SCIP notification number (France)	85023415-0053-4001-ad01-6492dd83d8e7
SCIP notification number (Germany)	7f7d4176-8f16-4f8e-9e9e-6e455f81ba82
SCIP notification number (Hungary)	ce5e2f1b-541c-466f-8fea-b5cd21927443
SCIP notification number (Italy)	f0507f89-d8ab-451e-93e2-cd5a4c498507
SCIP notification number (Netherlands)	9492c84d-b8b3-4c67-873e-c55c9348e42d
SCIP notification number (Poland)	d6d85ff9-49e3-4876-a26c-2da15075ea9d
SCIP notification number (Romania)	f1941b32-d3f9-439e-9f8c-de8e408db79d
SCIP notification number (Sweden)	00b65dcb-0cf2-4c4b-849c-3413e44f0d3c

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	71-126089

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
713-1410/107-000

Documentation

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB

Continued on next page

CAD/CAE-Data

CAD data

2D/3D Models
713-1410/107-000

CAE data

ZUKEN Portal
713-1410/107-000

PCB Design

Symbol and Footprint via
SamacSys
713-1410/107-000

Symbol and Footprint via
Ultra Librarian
713-1410/107-000

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 713-1110/107-000
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismating; Screw flange; black



Item No.: 713-1110/107-047
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismating; Screw flange; direct marking; black



Item No.: 713-1110/107-9037
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismating; Screw flange; direct marking; black



Item No.: 713-1110/107-047/033-000
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismating; Screw flange; Strain relief plate; direct marking; black



Item No.: 713-1110/107-9037/033-000
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 20-pole; 100% protected against mismating; Screw flange; Strain relief plate; direct marking; black

1.2 Optional Accessories

1.2.1 Coding

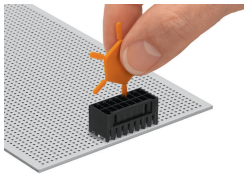
1.2.1.1 Coding



Item No.: 714-101
Coding key; orange

Installation Notes

Coding



Coding a male header by inserting a coding pin.

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