

Data Sheet | Item Number: 714-142

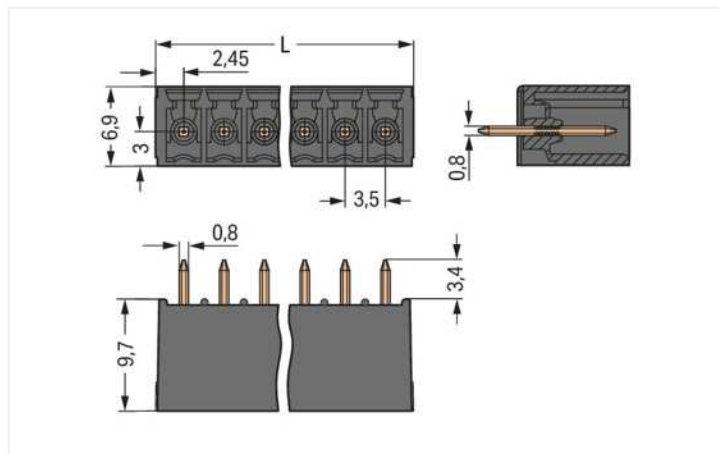
THT male header; 0.8 x 0.8 mm solder pin; straight; Pin spacing 3.5 mm; 12-pole; black

<https://www.wago.com/714-142>



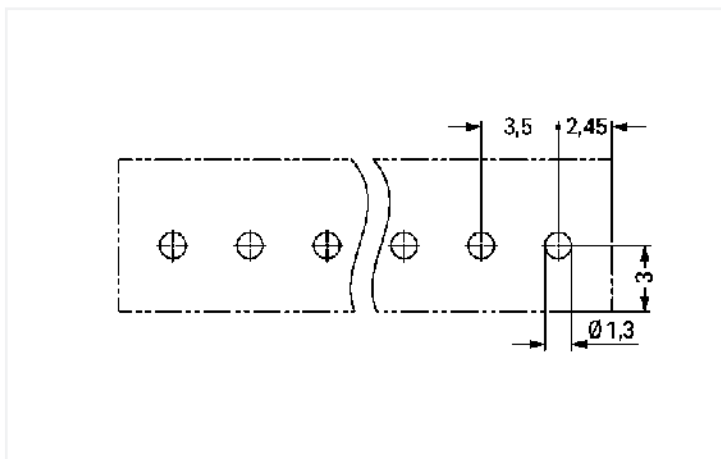
Color: ■ black

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 4.9 \text{ mm}$



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

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 versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	160 V
Rated impulse voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated impulse voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V

Ratings per IEC/EN

Rated surge voltage (II/2)	2.5 kV
Rated current	8 A
Legend (ratings)	(III / 2) Δ Overvoltage category III / Pollution degree 2

Ratings per UL 1059

Approvals per	UL 1059
Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	8 A

Connection data

Total number of potentials	12
Number of connection types	1
Number of levels	1

Connection 1

Pole number	12
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Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	43.4 mm / 1.709 inches
Height	13.1 mm / 0.516 inches
Height from the surface	9.7 mm / 0.382 inches
Depth	6.9 mm / 0.272 inches
Solder pin length	3.4 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter with tolerance	1.2 ^(+0.1) mm

Mechanical data

Variable coding	Yes
Anti-rotation protection	Yes

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Mating direction to the PCB	90 °

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	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	Tin
Fire load	0.054 MJ
Weight	2.5 g

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	27-44-04-02
eCl@ss 9.0	27-44-04-01
ETIM 8.0	EC002637
ETIM 7.0	EC002637
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454858896
Customs tariff number	85366990990

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61984	NTR NL-7604
KEMA/KEUR DEKRA Certification B.V.	EN 61984	2198681.01
UR Underwriters Laboratories Inc.	UL 1059	E45172

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 714-142



Documentation

Additional Information

Technical Section
03.04.2019
pdf
1949.09 KB



CAD/CAE-Data

CAD data

2D/3D Models 714-142



CAE data

ZUKEN Portal 714-142



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 714-112

1-conductor female connector; push-button; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 1,50 mm²; black

Item No.: 714-112/000-047

1-conductor female connector; push-button; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; direct marking; 1,50 mm²; black

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



Item No.: 714-101

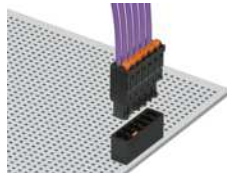
Coding key; orange

Installation Notes

Coding



Coding a male header by inserting a coding pin.



Coded connectors