

Data sheet | Item number: 734-172/105-604

THR male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 12-pole



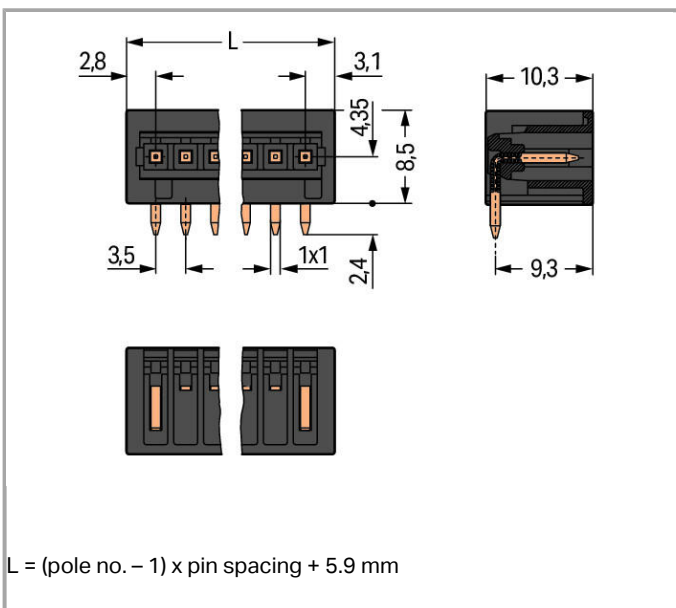
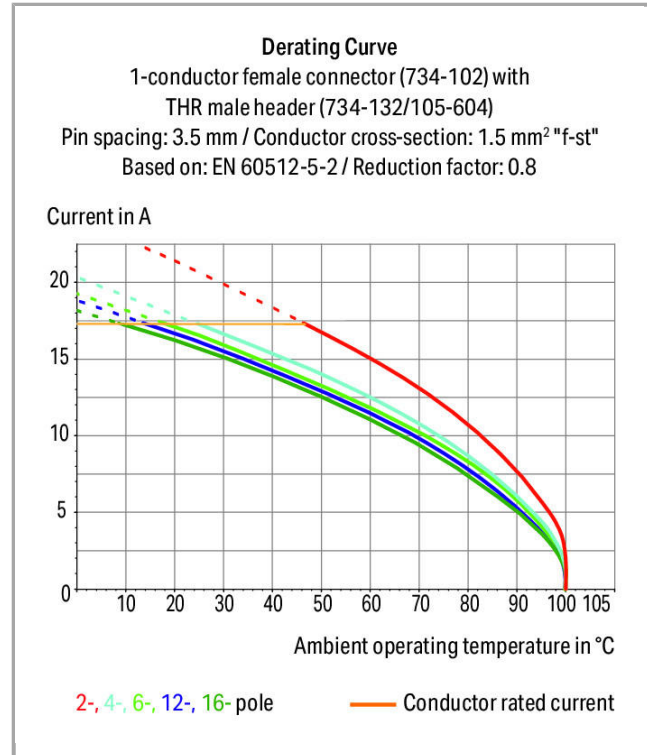
734-172/105-604



RoHS  Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color: ■



Item description

- THR male headers for reflow soldering in SMT applications



- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- Optimal thermal penetration via pin enclosure design provides lower soldering temperatures
- 100% protected against mismatching
- Coding via coding fingers

**Safety information 1:**

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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 60664-1**

Rated 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
Rated voltage (II / 2)	320 V
Rated impulse voltage (II / 2)	2.5 kV
Rated current	10 A

**Approvals per UL 1059**

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

**Approvals per CSA**

Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

**Connection data**

No. of poles	12
Total number of potentials	12
Number of connection types	1
Number of levels	1



## Geometrical Data

Pin spacing	3.5 mm / 0.138 inch
Width	44.4 mm / 1.748 inch
Height	10.9 mm / 0.429 inch
Height from the surface	8.5 mm / 0.335 inch
Depth	10.3 mm / 0.406 inch
Solder pin length	2.4 mm
Solder pin dimensions	1 x 1 mm

## Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for PCBs
Mismating protection	Yes
Mating direction to the PCB	0°

## PCB contact

PCB contact	THR
Solder pin arrangement	over the entire male connector, in line
Number of solder pins per potential	1

## Material Data

Color	black
Material group	I
Insulating material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.065 MJ
Weight	3.18 g

## Environmental Requirements

Limit temperature range	-60 ... +100 °C
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## Commercial data

Product Group	3 (Multi Conn. System)
Country of origin	DE
GTIN	4044918848961
Customs Tariff No.	85366990990



## Compatible products

### Coding

	<b>Item no.: 734-130</b> Coding key; to be snapped above top level	734-130
	<b>Item no.: 734-159</b> Coding key; to be snapped above top level	734-159

## Downloads

### CAD/CAE - Smart Data

#### PCB libraries

DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) Compatible with DesignSpark PCB Version 4.x or higher	2.1 Oct 6, 2014	zip 6.1 MB	Download
EAGLE Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) Compatible with EAGLE PCB Design Software Version 6.x or higher	2.1 Oct 6, 2014	zip 6.2 MB	Download
TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System) Compatible with TARGET PCB Design Software Version 17.x	1.1.0 Oct 6, 2014	zip 7.4 MB	Download

#### CAD data

3D Download 734-172/105-604	URL	Download
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Subject to changes.