

Data sheet | Item number: 734-409

THT double-deck male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 18-pole



734-409



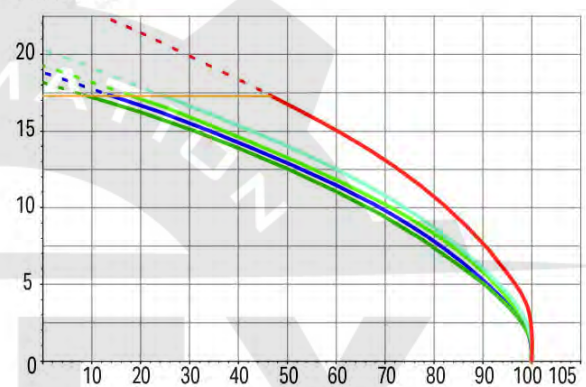
Derating Curve

1-conductor female connector (734-102) with
THT male header (734-162)

Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm² "f-st"

Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



Ambient operating temperature in °C

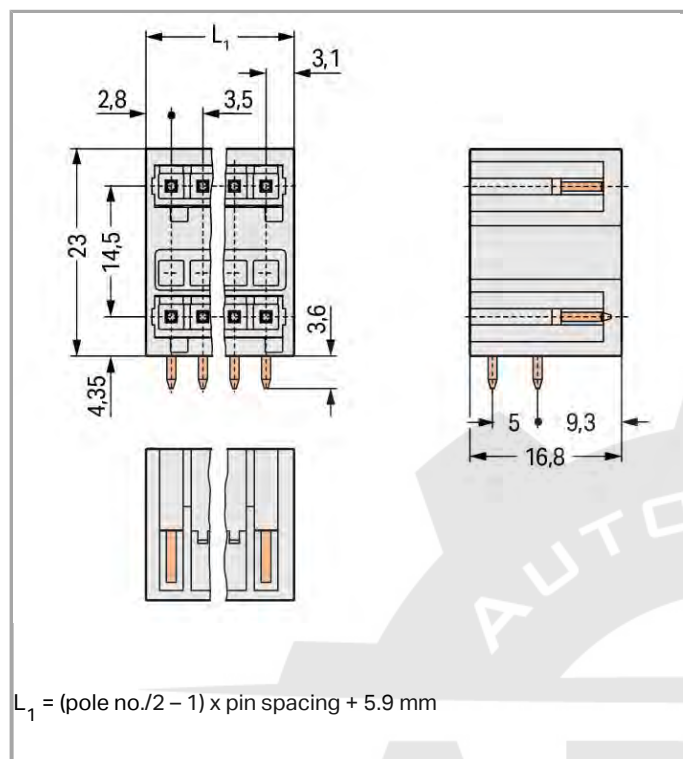
2-, 4-, 6-, 12-, 24- pole

Conductor rated current

RoHS
Compliant

BOMcheck.net

Color:



Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100 % protected against mismatching; only mating halves with the same number of poles can be connected together
- 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	18
Total number of potentials	18
Number of connection types	1
Number of levels	2

Geometrical Data

Pin spacing	3.5 mm / 0.138 inch
Width	33.9 mm / 1.335 inch
Height	26.6 mm / 1.047 inch
Height from the surface	23 mm / 0.906 inch
Depth	16.8 mm / 0.661 inch
Solder pin length	3.6 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter (tolerance)	1.4 ^(-...+0.1) 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	THT
Solder pin arrangement	over the entire male connector, in line
Number of solder pins per potential	1

Material Data

Color	light gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.171 MJ
Weight	9.848 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	4044918872980
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61984	2169534.02
	CCA DEKRA Certification B.V.	EN 61984	nl-54190

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH	UL 1977	E45171

Compatible products

Coding

**Item no.: 734-130**

734-130

Coding key; to be snapped above top level

**Item no.: 734-159**

734-159

Coding key; to be snapped above top level

**Item no.: 734-400**

734-400

Coding key; to be snapped above bottom level

Downloads**CAD/CAE - Smart Data****CAD data**

3D Download 734-409

URL

Download

PCB libraries

DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM)

2.1

Oct 6, 2014

zip

6.1 MB

Download

Compatible with DesignSpark PCB Version 4.x or higher

EAGLE Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM)

2.1

Oct 6, 2014

zip

6.2 MB

Download

Compatible with EAGLE PCB Design Software Version 6.x or higher

TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System)

1.1.0

Oct 6, 2014

zip

7.4 MB

Download

Compatible with TARGET PCB Design Software Version 17.x

Subject to changes.