

**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; light gray

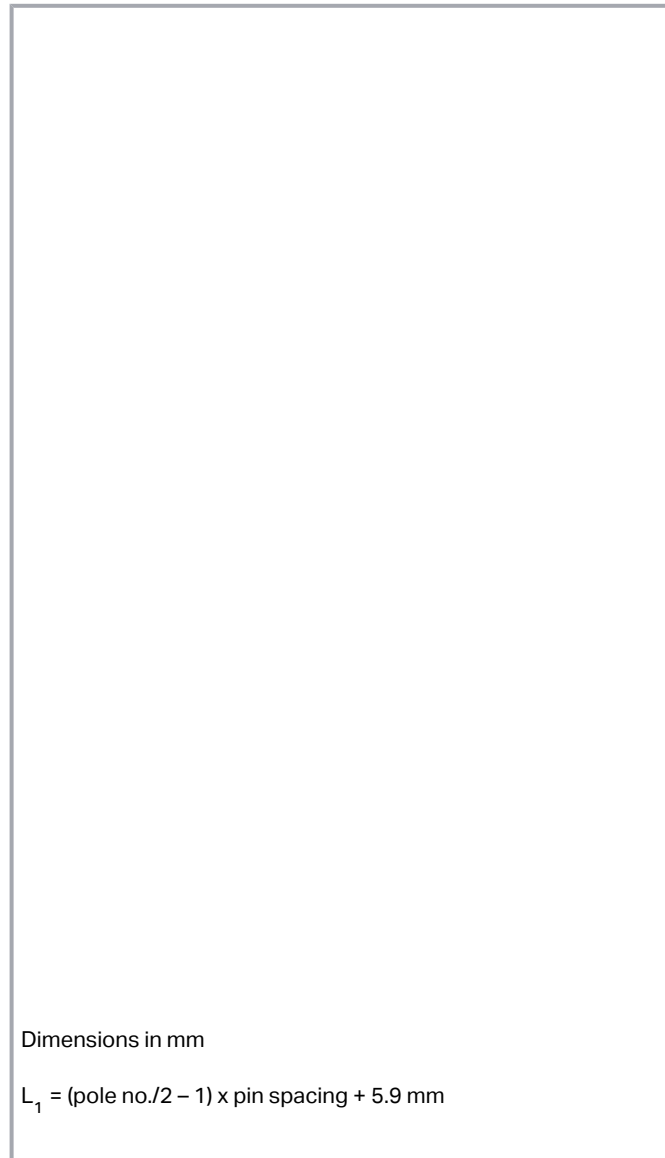
[www.wago.com/734-409](http://www.wago.com/734-409)



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

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### 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 option available

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



## Data

### 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  
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

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
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)	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

### Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V

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



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

Total number of potentials	18
Number of connection types	1
Number of levels	2

### Connection 1

Pole number	18
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### Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	33.9 mm / 1.335 inches
Height	26.6 mm / 1.047 inches
Height from the surface	23 mm / 0.906 inches
Depth	16.8 mm / 0.661 inches
Solder pin length	3.6 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1.4 <sup>(+0.1)</sup> 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	Yes
Plugging without loss of pin spacing	No
Mating direction to the PCB	0°
Locking of plug-in connection	none

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



## 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	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.171 MJ
Weight	9.8 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	27-44-04-02
ETIM 8.0	EC002637
ETIM 7.0	EC002637
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918872980
Customs tariff number	85366930000

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## Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 61984	2169534.02
	<b>CCA</b> DEKRA Certification B.V.	EN 61984	nl-54190
	<b>UL</b> Underwriters Laboratories Inc.	UL 1977	E 45171

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19- HG1869876- PDA
	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

## Counterpart

### Item no. 734-109

1-conductor female connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 9-pole; 100% protected against mismatching; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/734-109](http://www.wago.com/734-109)

## Optional accessories

### Coding

Coding	
<b>Item no.: 734-159</b> Coding key; to be snapped above top level; black	<a href="http://www.wago.com/734-159">www.wago.com/734-159</a>
<b>Item no.: 734-400</b> Coding key; to be snapped above bottom level; light gray	<a href="http://www.wago.com/734-400">www.wago.com/734-400</a>
<b>Item no.: 734-130</b> Coding key; to be snapped above top level; white	<a href="http://www.wago.com/734-130">www.wago.com/734-130</a>

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## Downloads

### Documentation

#### Additional Information

2019 年4月3日

pdf  
2.0 MB

[Download](#)

## CAD/CAE-Data

### CAD data

2D/3D Models 734-409

[URL](#)

[Download](#)

### CAE data

EPLAN Data Portal 734-409

[URL](#)

[Download](#)

ZUKEN Portal 734-409

[URL](#)

[Download](#)

### PCB Design

Symbol and Footprint 734-409

[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

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- 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

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 734-409	URL	Download
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## Installation Notes

### Coding



Coding a THT double-deck male header.

### Coding

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Coding a THT double-deck male header –  
lower level.

### Product family

**MCS MINI**

[Show all products from the family](#)

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