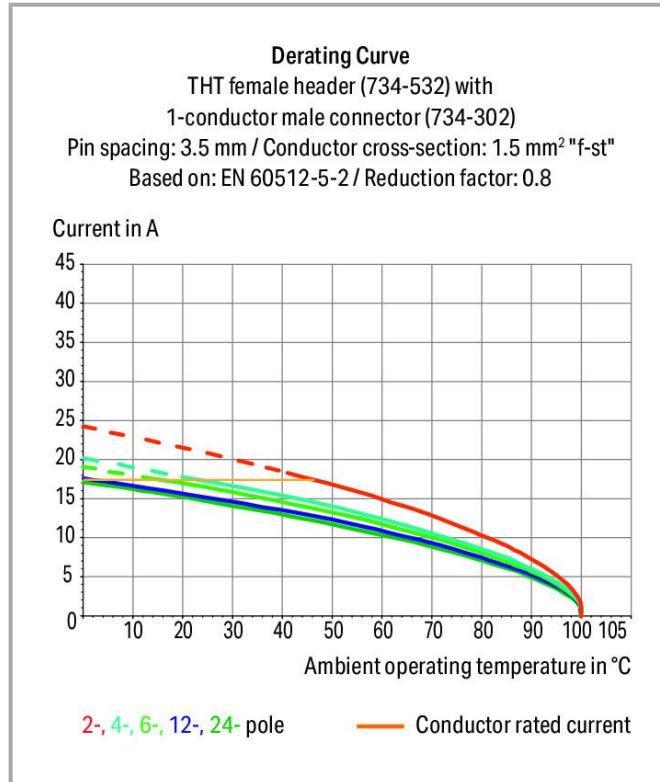




i

Picture differs from the item.

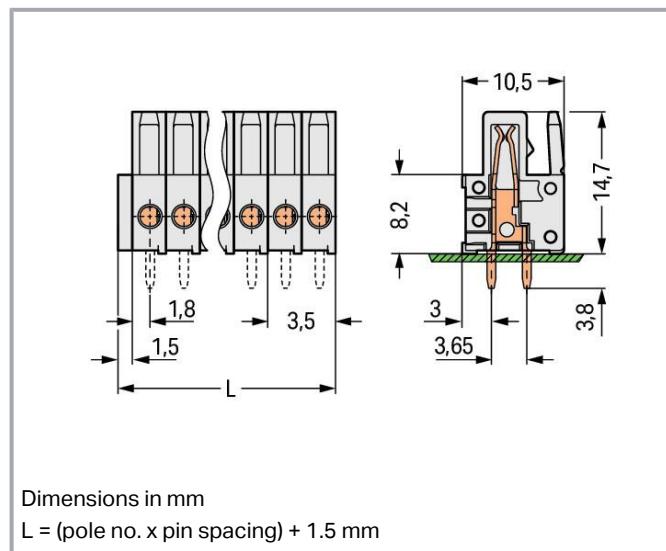
Color: █



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

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Dimensions in mm

 $L = (\text{pole no.} \times \text{pin spacing}) + 1.5 \text{ mm}$ 

## Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- Integrated test ports for 2 mm Ø test plugs
- For board-to-board and board-to-wire connections
- Touch-proof PCB outputs
- Easy-to-identify inputs and outputs
- 100% protected against mismatching
- Coding option available

## 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

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

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## 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
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

Connection points	9
Total number of potentials	9
Number of connection types	1
Number of levels	1

## Connection 1

Pole number	9
-------------	---

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

## Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	33 mm / 1.299 inches
Height	18.5 mm / 0.728 inches
Height from the surface	14.7 mm / 0.579 inches
Depth	10.5 mm / 0.413 inches
Solder pin length	3.8 mm
Solder pin dimensions	0.9 x 0.9 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)	Female connector/socket
Connector (connection type)	for PCB
Mismating protection	Yes
Plugging without loss of pin spacing	No
Mating direction to the PCB	90 °
Locking of plug-in connection	none

## PCB contact

PCB contact	THT
Solder pin arrangement	over the entire female 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

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Contact material	Copper alloy
Contact plating	Tin
Fire load	0.059 MJ
Weight	4.8 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	4044918999892
Customs tariff number	85366990990

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	EN 61984	NL-54190
	CSA DEKRA Certification B.V.	C22.2	1465035
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	71- 105522

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UL  
Underwriters Laboratories Inc.

UL 1977

E 45171



UR  
Underwriters Laboratories Inc.

UL 1059

E45172

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV GL SE	-	TAE000016Z
	LR Lloyds Register	IEC 61984	96/20035 (E5)

### Counterpart



#### Item no.734-309

1-conductor male connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 9-pole; 100% protected against mismating; 1,50 mm<sup>2</sup>; light gray [www.wago.com/734-309](http://www.wago.com/734-309)



#### Item no.734-309/019-000

1-conductor male connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 9-pole; 100% protected against mismating; clamping collar; 1,50 mm<sup>2</sup>; light gray [www.wago.com/734-309/019-000](http://www.wago.com/734-309/019-000)



#### Item no.734-139

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismating; Pin spacing 3.5 mm; 9-pole; light gray [www.wago.com/734-139](http://www.wago.com/734-139)



#### Item no.734-139/010-000

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismating; Gold-plated contacts; Pin spacing 3.5 mm; 9-pole; light gray [www.wago.com/734-139/010-000](http://www.wago.com/734-139/010-000)



#### Item no.734-139/046-000

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismating; Pin spacing 3.5 mm; 9-pole; light gray [www.wago.com/734-139/046-000](http://www.wago.com/734-139/046-000)



#### Item no.734-169

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismating; Pin spacing 3.5 mm; 9-pole; light gray [www.wago.com/734-169](http://www.wago.com/734-169)

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## Downloads

### Documentation

#### Additional Information

2019 Apr 3

pdf  
2.1 MB

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## CAD/CAE-Data

### CAD data

2D/3D Models 734-469

URL Download

### CAE data

EPLAN Data Portal 734-469

URL Download

ZUKEN Portal 734-469

URL Download

## PCB Design

Symbol and Footprint via Ultra Librarian 734-469

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
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- 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

—  
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- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

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#### PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 734-469

[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:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus

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- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

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#### Asset Administration Shell

Asset Administration Shell 734-469

[URL](#)

[Download](#)

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#### Environmental Product Compliance

##### Compliance Search

Environmental Product Compliance 734-469

[URL](#)

[Download](#)

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THT female header; straight; Pin spacing 3.5 mm; 9-pole; 100% protected against  
mismating; 0.9 x 0.9 mm solder pin; light gray

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#### Installation Notes

#### Product family

##### MCS MINI

[Show all products from the family](#)

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