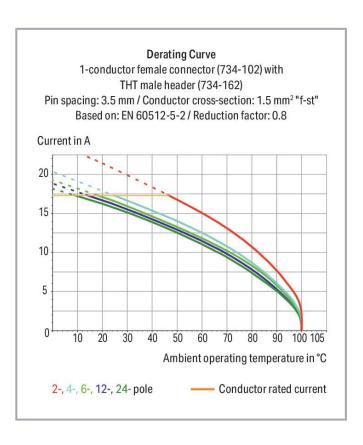
THT double-deck male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismating; Pin spacing 3.81 mm; 24-pole; orange www.wago.com/734-442



Picture differs from the item.

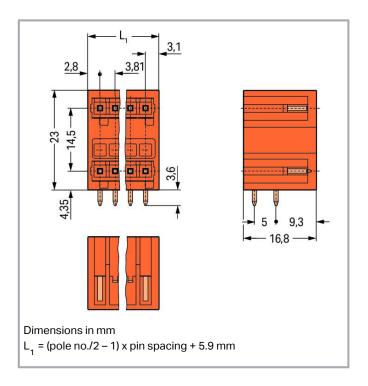


 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

Color: \_\_

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# Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100% protected against mismating; only mating halves with the same number of poles can be connected together
- 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

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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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) ≙ 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

Total number of potentials	24
Number of connection types	1
Number of levels	2

### Connection 1

Pole number 24	
----------------	--

# Physical data

Pin spacing	3.81 mm / 0.15 inches

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Width	47.81 mm / 1.882 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

### **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	orange
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.25 MJ

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Weight	13.9 g
Environmental requirements	
Limit temperature range	-60 +100 °C

-35 ... +60 °C

# Commercial data

Processing temperature

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
ECCN	NO DATA
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918873475
Customs tariff number	85366930000

# **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

# Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	EN 61984	NL-54190
<b>(1)</b>	CSA DEKRA Certification B.V.	C22.2	1465035
KEMA	KEMA/KEUR  DEKRA Certification B.V.	EN 61984	71- 105522

UL 1977

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Underwriters Laboratories Inc.

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UL

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E 45171







Underwriters Laboratories Inc.

UL 1059

E45172

#### Approvals for marine applications

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

# Counterpart



Item no.734-212

1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 12-pole; 100% protected against mismating; 1,50 mm<sup>2</sup>; orange

www.wago.com /734-212

### **Optional accessories**

Cod	ling

Coaing		
Coding		
M	Item no.: 734-159 Coding key; to be snapped above top level; black	www.wago.com/734-159
90	Item no.: 734-400 Coding key; to be snapped above bottom level; light gray	www.wago.com/734-400
Spile Bolt	Item no.: 734-130 Coding key; to be snapped above top level; white	www.wago.com/734-130

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# **Downloads Documentation**

#### Additional Information

**Technical Section** 2019 Apr 3 pdf Download 2.1 MB Technical explanations

#### CAD/CAE-Data

**CAD** data

2D/3D Models 734-442 URL Download

#### **PCB** Design

Symbol and Footprint via Ultra Librarian 734-442

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
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer

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URL

Download

- 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

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

Symbol and Footprint via SamacSys 734-442

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
- Pulsonix
- Quadcept
- SOLIDWORKS PCB

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- TARGET 3001!
- xDX Designer
- Xpedition

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

#### CAE data

EPLAN Data Portal 734-442	URL	Download
ZUKEN Portal 734-442	URL	Download
Asset Administration Shell		
Asset Administration Shell 734-442	URL	Download

# **Environmental Product Compliance**

#### Compliance Search

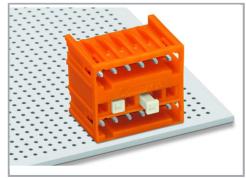
Environmental Product Compliance 734-442

THT double-deck male header;  $1.0\,\mathrm{x}\,1.0\,\mathrm{mm}$  solder pin; angled; 100% protected against mismating; Pin spacing 3.81 mm; 24-pole; orange

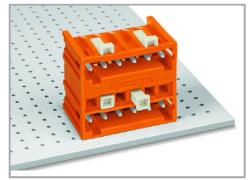
URL Download

#### **Installation Notes**

### Coding



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



Coding a THT double-deck male header.

# **Product family**

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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MCS MINI

Show all products from the family

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