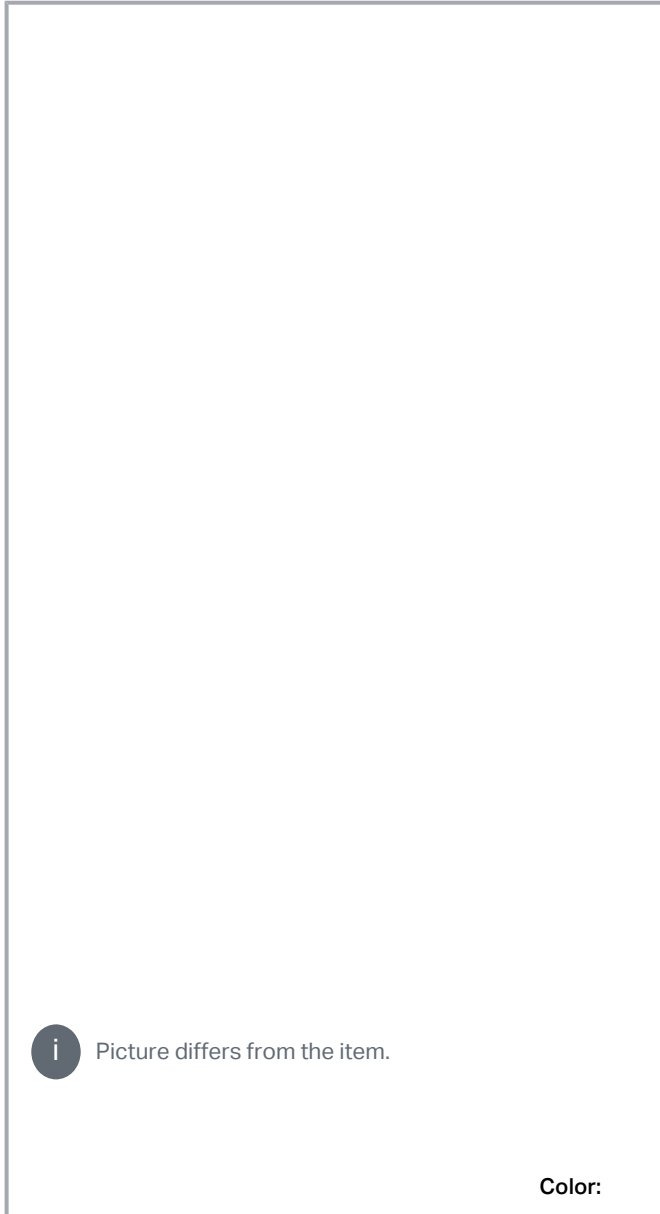


**Data sheet | Item number: 722-742**

THT female header; straight; Pin spacing 7.5 mm; 12-pole; 100% protected against mismatching; 0.6 x 1.0 mm solder pin; light gray

[www.wago.com/722-742](http://www.wago.com/722-742)



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

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Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5 \text{ mm} + 1.5 \text{ mm}$

2-pole female connectors – one latch only

### Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- For board-to-board and board-to-wire connections
- Touch-proof PCB outputs
- Easy-to-identify PCB inputs and outputs
- 100 % protected against mismating
- With coding fingers

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## 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  
3.8 mm pin projection for male headers with straight solder pins  
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)	500 V
Rated impulse voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated impulse voltage (III/2)	6 kV
Nominal voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
Rated current	12 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)	15 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

### Ratings per UL 1977

Rated voltage (UL 1977)	600 V
Rated current UL 1977	15 A

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## Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	15 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

## Connection data

Total number of potentials	12
Number of connection types	1
Number of levels	1

## Connection 1

Pole number	12
-------------	----

## Physical data

Pin spacing	7.5 mm / 0.295 inches
Width	89 mm / 3.504 inches
Height	23.25 mm / 0.915 inches
Height from the surface	18.25 mm / 0.719 inches
Depth	11.6 mm / 0.457 inches
Solder pin length	5 mm
Solder pin dimensions	0.6 x 1 mm
Drilled hole diameter with tolerance	1.3 <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 °

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



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
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.26 MJ
Weight	13.3 g

## Environmental requirements

Limit temperature range	-60 ... +85 °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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918580984
Customs tariff number	85366990990

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

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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>CB</b> DEKRA Certification B.V.	IEC 61984	NL-39756 /A1
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71-121453
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172
	<b>UR</b> Underwriters Laboratories Inc.	UL 1977	E 45171

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>Railway</b> WAGO GmbH & Co. KG	-	Railway Ready

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19-HG1869876-PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z
	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

## Counterpart

### Item no.723-612

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; 100% protected against mismatching; 2,50 mm²; light gray

[www.wago.com/723-612](http://www.wago.com/723-612)

### Item no.723-612/019-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; 100% protected against mismatching; clamping collar; 2,50 mm²; light gray

[www.wago.com/723-612/019-000](http://www.wago.com/723-612/019-000)

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

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## Optional accessories

### Testing and measuring

Testing accessories		
<b>Item no.: 210-136</b>		<a href="http://www.wago.com/210-136">www.wago.com/210-136</a>
Test plug; 2 mm Ø; with 500 mm cable; red		
<b>Item no.: 231-662</b>		<a href="http://www.wago.com/231-662">www.wago.com/231-662</a>
Test plugs for female connectors; for 7.5 mm and 7.62 mm pin spacing; 2,50 mm²; light gray		

### Marking accessories

Marking strip		
<b>Item no.: 210-833</b>		<a href="http://www.wago.com/210-833">www.wago.com/210-833</a>
Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white		
<b>Item no.: 210-834</b>		<a href="http://www.wago.com/210-834">www.wago.com/210-834</a>
Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white		

## Downloads

### Documentation

#### Additional Information

	2019 年4月3日	pdf 2.0 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 722-742	URL	Download
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### CAE data

EPLAN Data Portal 722-742	URL	Download
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ZUKEN Portal 722-742	URL	Download
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### PCB Design

Symbol and Footprint 722-742	URL	Download
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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:

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



- 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
- 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 722-742	URL	Download
THT female header; straight; Pin spacing 7.5 mm; 12-pole; 100% protected against mismatching; 0.6 x 1.0 mm solder pin; light gray		

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## Installation Notes

### Product family

#### MCS MIDI

[Show all products from the family](#)

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