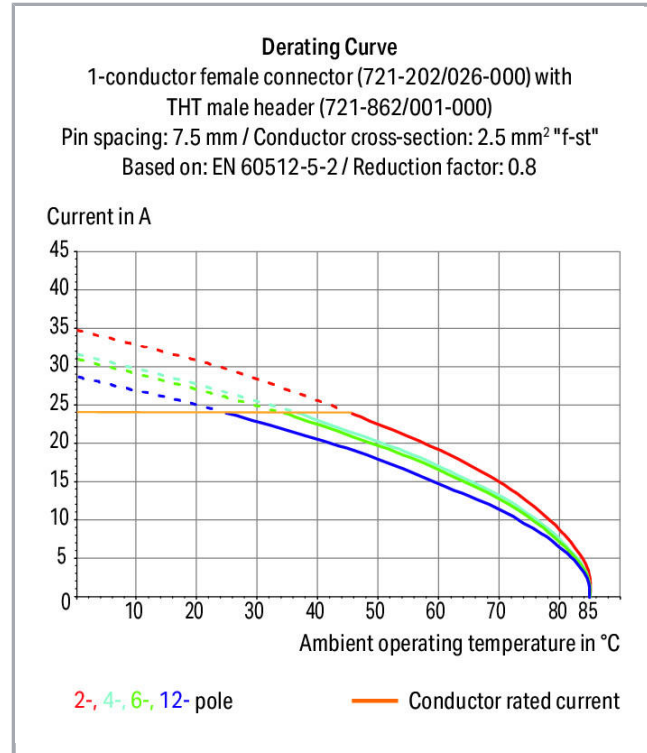
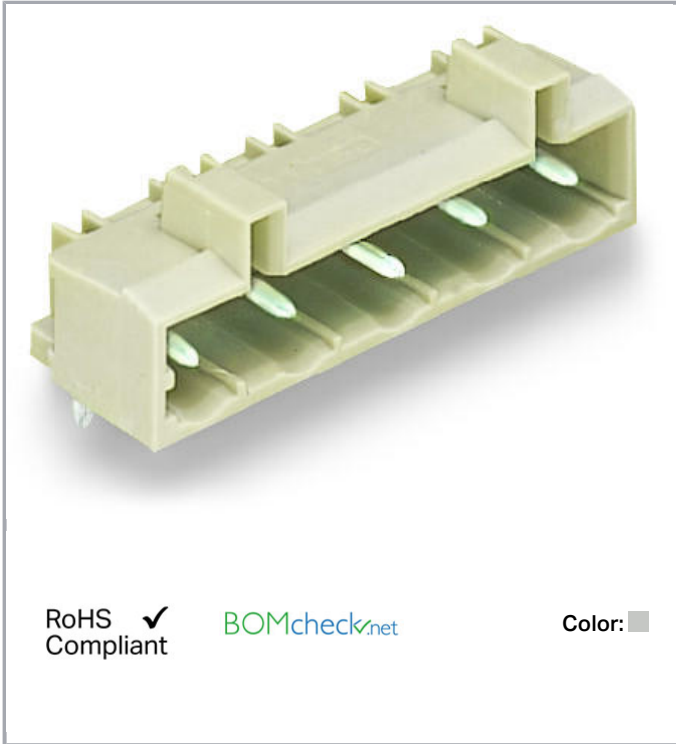


**Data sheet | Item number: 721-839/001-000**

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 7.5 mm; 9-pole; light gray

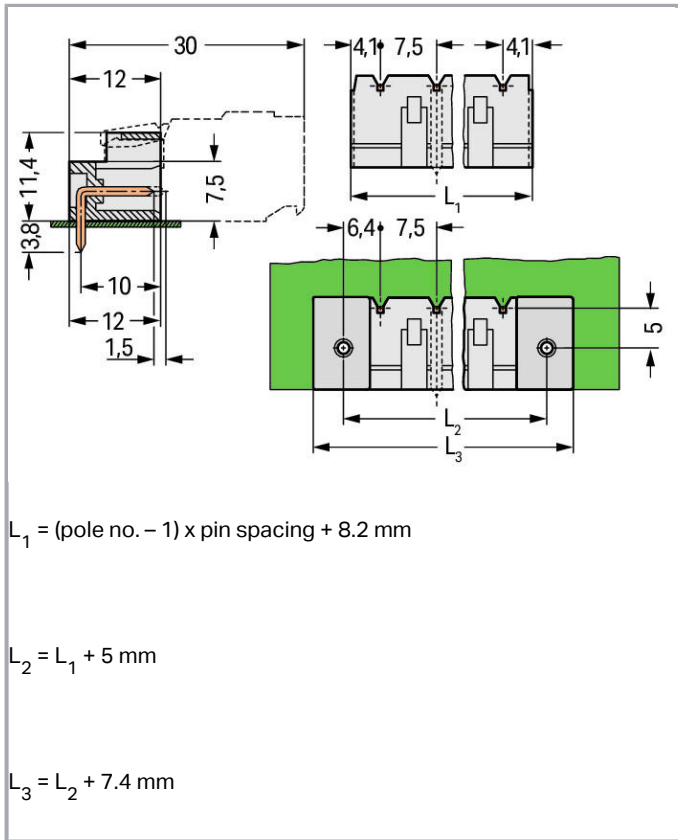
[www.wago.com/721-839/001-000](http://www.wago.com/721-839/001-000)



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
- Pin cross-section: 1 x 1 mm
- 100 % protected against mismatching
- With 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

Ratings per

IEC/EN 60664-1

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Rated 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
Rated voltage (II / 2)	1000 V
Rated impulse voltage (II / 2)	6 kV
Rated current	12 A
Legend (ratings)	(III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2

### 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
Approvals per	UL 1059

### Approvals per UL 1977

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	10 A

### 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

No. of poles	9
Total number of potentials	9
Number of connection types	1
Number of levels	1

### Geometrical Data

Pin spacing	7.5 mm / 0.295 inch
Width	68.2 mm / 2.685 inch
Height	15.2 mm / 0.598 inch

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Height from the surface	11.4 mm / 0.449 inch
Depth	12 mm / 0.472 inch
Solder pin length	3.8 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter (tolerance)	1.4 <sup>(+0.1)</sup> 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 <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.073 MJ
Weight	3.6 g

### Environmental Requirements

Limit temperature range	-60 ... +100 °C
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### Commercial data

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	DE
GTIN	4044918870078


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

Customs Tariff No.


85366990990

## Approvals / Certificates



### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-39756
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	2190761.01

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19- HG1869876- PDA

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172
	<b>UR</b> Underwriters Laboratories Inc.	UL 1977	20150318- E45171

## Counterpart



### Item no.721-209/026-000

1-conductor female plug; 100% protected against mismatching; 2.5 mm<sup>2</sup>; Pin spacing 7.5 mm; 9-pole; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/721-209/026-000](http://www.wago.com/721-209/026-000)



### Item no.2721-209/026-000

1-conductor female plug; 100% protected against mismatching; push-button; 2.5 mm<sup>2</sup>; Pin spacing 7.5 mm; 9-pole; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/2721-209/026-000](http://www.wago.com/2721-209/026-000)

### Item no.2721-209/031-000

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	1-conductor female plug; 100% protected against mismatching; push-button; clamping collar; direct marking; 2.5 mm <sup>2</sup> ; Pin spacing 7.5 mm; 9-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2721-209/031-000">www.wago.com/2721-209/031-000</a>
	<b>Item no.2721-209/037-000</b> 1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 2.5 mm <sup>2</sup> ; Pin spacing 7.5 mm; 9-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2721-209/037-000">www.wago.com/2721-209/037-000</a>
	<b>Item no.721-209/027-000</b> 1-conductor female plug; 100% protected against mismatching; clamping collar; 2.5 mm <sup>2</sup> ; Pin spacing 7.5 mm; 9-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/721-209/027-000">www.wago.com/721-209/027-000</a>
	<b>Item no.721-209/031-000</b> 1-conductor female plug; 100% protected against mismatching; clamping collar; 2.5 mm <sup>2</sup> ; Pin spacing 7.5 mm; 9-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/721-209/031-000">www.wago.com/721-209/031-000</a>
	<b>Item no.721-209/037-000</b> 1-conductor female plug; 100% protected against mismatching; Locking lever; 2.5 mm <sup>2</sup> ; Pin spacing 7.5 mm; 9-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/721-209/037-000">www.wago.com/721-209/037-000</a>
	<b>Item no.721-2209/026-000</b> 2-conductor female connector; 100% protected against mismatching; 2.5 mm <sup>2</sup> ; Pin spacing 7.5 mm; 9-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/721-2209/026-000">www.wago.com/721-2209/026-000</a>
	<b>Item no.721-209/037-000/035-000</b> 1-conductor female plug; 100% protected against mismatching; Locking lever; Strain relief plate; 2.5 mm <sup>2</sup> ; Pin spacing 7.5 mm; 9-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/721-209/037-000/035-000">www.wago.com/721-209/037-000/035-000</a>
	<b>Item no.721-2209/037-000</b> 2-conductor female connector; 100% protected against mismatching; Locking lever; 2.5 mm <sup>2</sup> ; Pin spacing 7.5 mm; 9-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/721-2209/037-000">www.wago.com/721-2209/037-000</a>

## Compatible products

### Marking accessories

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

### Coding

<b>Item no.: 231-130</b> Coding key; snap-on type; light gray	<a href="http://www.wago.com/231-130">www.wago.com/231-130</a>
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## Downloads

### Documentation

#### Additional Information

Technical explanations	Apr 3, 2019	pdf	Download
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Subject to changes. Please also observe the further product documentation!



## CAD/CAE-Data

### CAD data

2D/3D Models 721-839/001-000	<a href="#">URL</a>	<a href="#">Download</a>
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### CAE data

EPLAN Data Portal 721-839/001-000	<a href="#">URL</a>	<a href="#">Download</a>
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### PCB Design

Symbol and Footprint 721-839/001-000	<a href="#">URL</a>	<a href="#">Download</a>
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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.

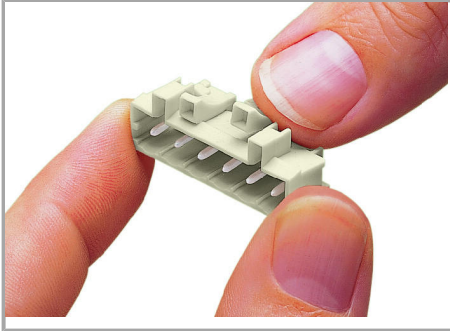
### Supported formats:

- 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

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## Installation Notes

### Coding



Coding a male header – fitting coding key(s).

## Product family

**<i>MCS</i> MIDI**

[Learn more about the product family.](#)

[Show all products from the family](#)

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