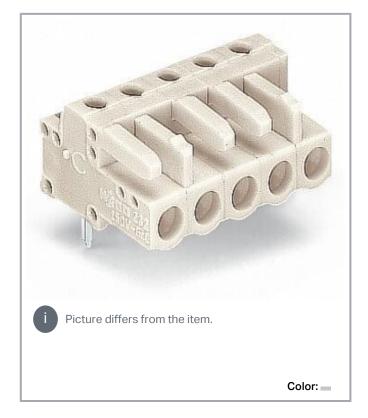
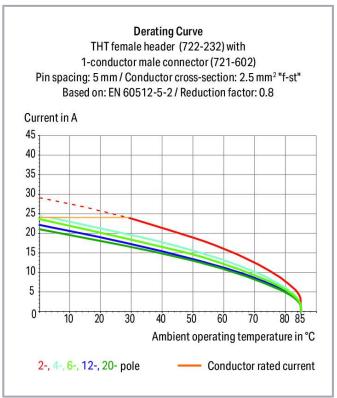
THT female header; angled; Pin spacing 5 mm; 3-pole; 100% protected against mismating; 0.6 x 1.0 mm solder pin; light gray



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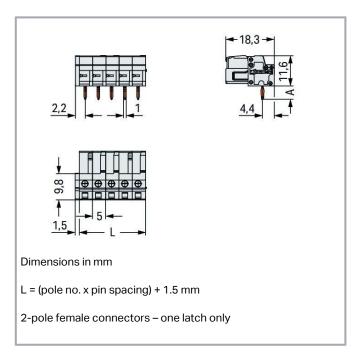
 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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# Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 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

# 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 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/.

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## **Electrical data**

# Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	320 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse voltage (III/2)	4 kV
Nominal voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
Rated current	12 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

# Ratings per UL 1059

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

# 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	3
Number of connection types	1
Number of levels	1

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

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## Connection 1

Pole number 3

# Physical data

Pin spacing	5 mm / 0.197 inches
Width	16.5 mm / 0.65 inches
Height	16.6 mm / 0.654 inches
Height from the surface	11.6 mm / 0.457 inches
Depth	18.25 mm / 0.719 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	0°
Locking of plug-in connection	none

#### **PCB** contact

PCB contact	ТНТ
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

	P. L.
Color	light grav
20101	ngire gray

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Material group	T.
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.05 MJ
Weight	2.9 g

## **Environmental requirements**

Limit temperature range	-60 +85 °C
Processing temperature	-35 +60 °C

## Commercial data

3 (Multi Conn. System)
27-44-04-02
27-44-04-02
EC002637
EC002637
100 pcs
box
DE
4044918580601
85366990990

# **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.	IEC 61984	NL-39756 /A1
KEMA	KEMA/KEUR  DEKRA Certification B.V.	EN 61984	71- 121453
	UR	UL 1977	E45171

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Underwriters Laboratories Inc.

Declarations of conformity and manufacturer's declarations				
Logo	Approval	Additional Approval Text	Certificate name	
RAILWAY READY	Railway WAGO GmbH & Co. KG	-	Railway Ready	
Approvals for	marine applications		Certificate	
Logo	Approval	Additional Approval Text	name	
ABS.	ABS American Bureau of Shipping	-	19- HG1869876- PDA	
DNV DNVCOM/AF	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z	
QIANGALD .	LR Lloyds Register	IEC 61984	96/20035 (E5)	

# Counterpart



## Item no.721-603

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3-pole; 100% protected against mismating; 2,50 mm²; light gray

www.wago.com /721-603



## Item no.721-603/019-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3-pole; 100% protected against mismating; clamping collar; 2,50 mm²; light gray

www.wago.com /721-603/019-000



#### Item no.721-603/000-042

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3-pole; Preceding ground contact; 100% protected against mismating; direct marking; 2,50 mm²; light gray

www.wago.com /721-603/000-042

#### Item no.721-603/019-042

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1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 3-pole; Preceding ground contact; 100% protected against mismating; clamping collar; direct marking; 2,50 mm²; light gray

www.wago.com /721-603/019-042

#### Optional accessories

	accesso	

Marking strip

Item no.: 210-833

Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

www.wago.com/210-833

Item no.: 210-834

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

www.wago.com/210-834

**Testing and measuring** 

Testing accessories



Item no.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red

www.wago.com/210-136

1

Item no.: 231-661

Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm<sup>2</sup>; light gray

www.wago.com/231-661

Downloads

**Documentation** 

**Additional Information** 

Technical Section

Technical explanations

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CAD/CAE-Data

CAD data

2D/3D Models 722-233

URL

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CAE data

EPLAN Data Portal 722-233

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ZUKEN Portal 722-233

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#### **PCB** Design

Symbol and Footprint 722-233 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
- 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

## **Environmental Product Compliance**

## Compliance Search

Environmental Product Compliance 722-233

URL

Download

THT female header; angled; Pin spacing 5 mm; 3-pole; 100% protected against mismating;  $0.6 \times 1.0$  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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