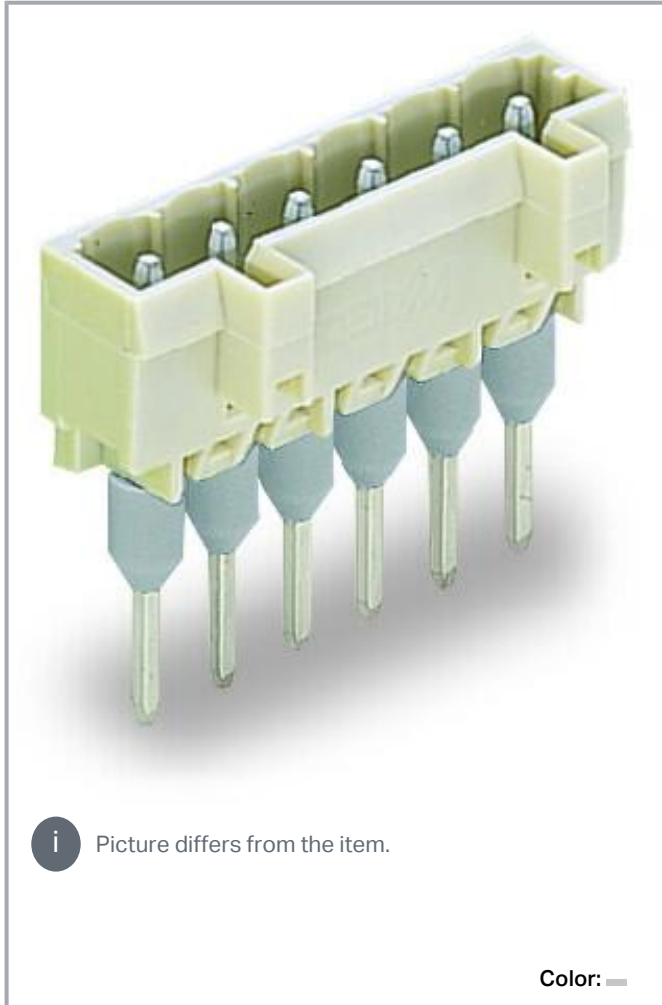


**Data sheet | Item number: 721-168/003-000**

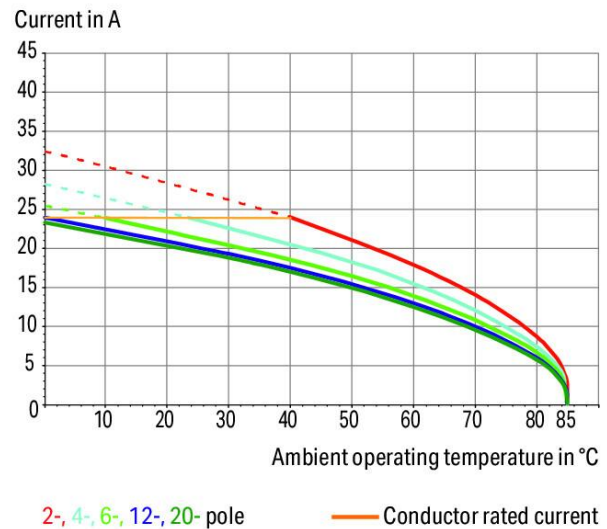
Male connector for rail-mount terminal blocks; 1.2 x 1.2 mm pins; straight;  
100% protected against mismatching; Pin spacing 5 mm; 8-pole; light gray

[www.wago.com/721-168/003-000](http://www.wago.com/721-168/003-000)



**Derating Curve**

1-conductor female connector (721-102/026-000) with  
male connector (721-162/003-000)  
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8

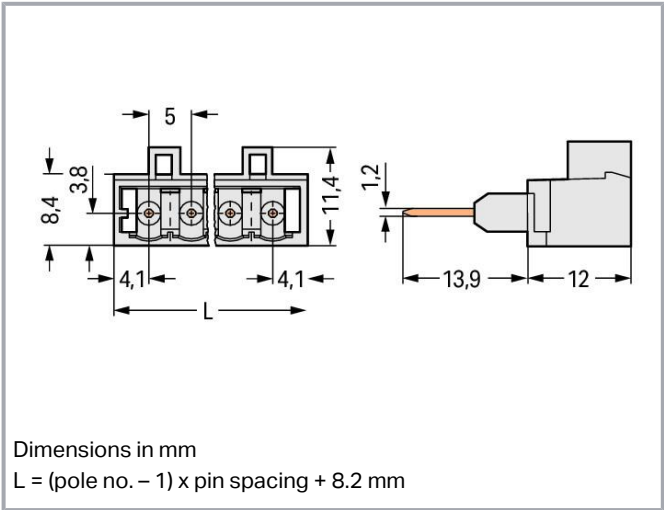


Picture differs from the item.

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

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Item description

- Pluggable connectors for rail-mount terminal blocks equipped with CAGE CLAMP® connection
- Male connectors with long contact pins connect to the termination ports of 280 Series Rail-Mount Terminal Blocks
- Pins can be touched when the connector is unplugged, so power should be supplied via terminal block (observe rated voltage!)
- 100 % protected against mismatching
- 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  
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

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

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Nominal voltage (III/3)	250 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	16 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

### 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	8
Number of connection types	1
Number of levels	1

### Connection 1

Pole number	8
-------------	---

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



## Physical data

Pin spacing	5 mm / 0.197 inches
Width	43.2 mm / 1.701 inches
Height	25.9 mm / 1.02 inches
Height from the surface	12 mm / 0.472 inches
Depth	11.4 mm / 0.449 inches

## Mechanical Data

Variable coding	Yes
Anti-rotation protection	Yes

## Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for front-entry rail-mount terminal block
Mismating protection	Yes
Plugging without loss of pin spacing	No
Locking of plug-in connection	none

## 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	Electrolytic copper ( $E_{Cu}$ )
Contact plating	Tin
Fire load	0.122 MJ
Weight	4.7 g

## Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

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



## Commercial data




Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	100 pcs
Packaging type	box
Country of origin	PL
GTIN	4044918905794
Customs tariff number	85366930000

## Environmental Product Compliance

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

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-39756 /A1
	<b>CSA</b> DEKRA Certification B.V.	C22.2	1466354
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71-121453
	<b>UL</b> Underwriters Laboratories Inc.	UL 1977	E45171

### Approvals for marine applications

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

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BUREAU  
VERITAS

**BV**  
Bureau Veritas S.A.

IEC 60998

11915/D0  
BV



**DNV**  
DNV GL SE

-

TAE000016Z

## Counterpart



Item no. 721-108/026-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismatching; 2,50 mm²; light gray

[www.wago.com/721-108/026-000](http://www.wago.com/721-108/026-000)

## Optional accessories

### Tool

Operating tool



Item no.: 280-438

Operating tool; made of insulating material; 8-way

[www.wago.com/280-438](http://www.wago.com/280-438)

### Mounting

Empty housings



Item no.: 280-835/056-000

Spacer of same profile; suitable for 4-conductor terminal blocks of horizontal type; orange

[www.wago.com/280-835/056-000](http://www.wago.com/280-835/056-000)



Item no.: 280-902/056-000

Spacer of same profile; suitable for 2-conductor terminal blocks of horizontal type; orange

[www.wago.com/280-902/056-000](http://www.wago.com/280-902/056-000)



Item no.: 280-650/056-000

Spacer of same profile; suitable for 3-conductor terminal blocks of horizontal type; orange

[www.wago.com/280-650/056-000](http://www.wago.com/280-650/056-000)



Item no.: 280-654/056-000

Spacer of same profile; suitable for 3- and 4-conductor terminal blocks of angled type; orange

[www.wago.com/280-654/056-000](http://www.wago.com/280-654/056-000)

### Coding

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

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Coding



Item no.: 231-129  
Coding key; snap-on type; light gray

[www.wago.com/231-129](http://www.wago.com/231-129)

Downloads  
Documentation

Additional Information

	2019 Apr 3	pdf 2.1 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 721-168/003-000	URL	Download
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CAE data

EPLAN Data Portal 721-168/003-000	URL	Download
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ZUKEN Portal 721-168/003-000	URL	Download
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EPLAN Data Portal 721-168/003-000	URL	Download
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Asset Administration Shell

Asset Administration Shell 721-168/003-000	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 721-168/003-000	URL	Download
Male connector for rail-mount terminal blocks; 1.2 x 1.2 mm pins; straight; 100% protected against mismatching; Pin spacing 5 mm; 8-pole; light gray		

Installation Notes

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

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## Product family

### MCS MIDI

[Show all products from the family](#)

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