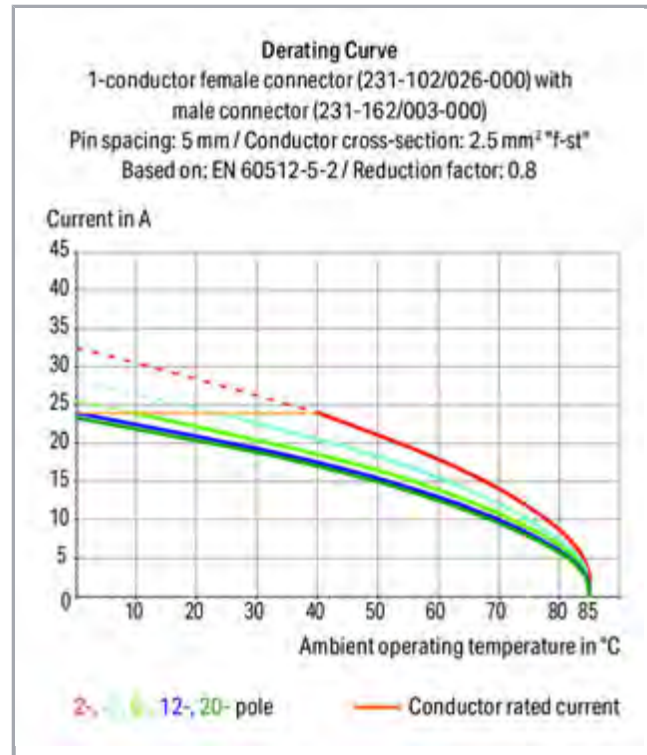
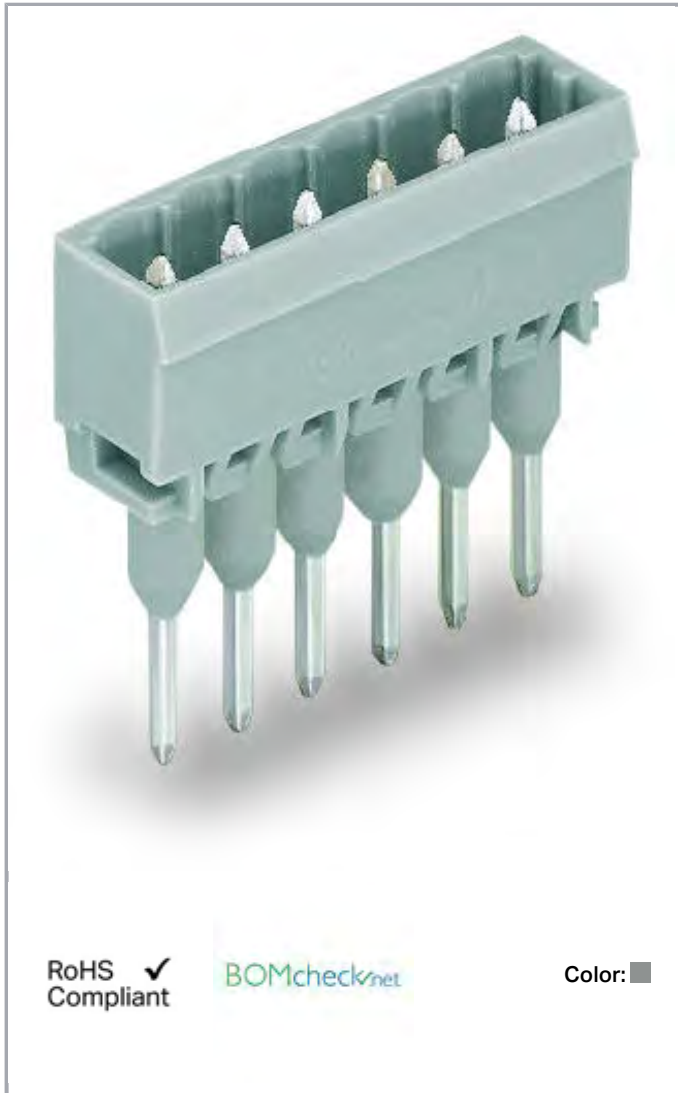
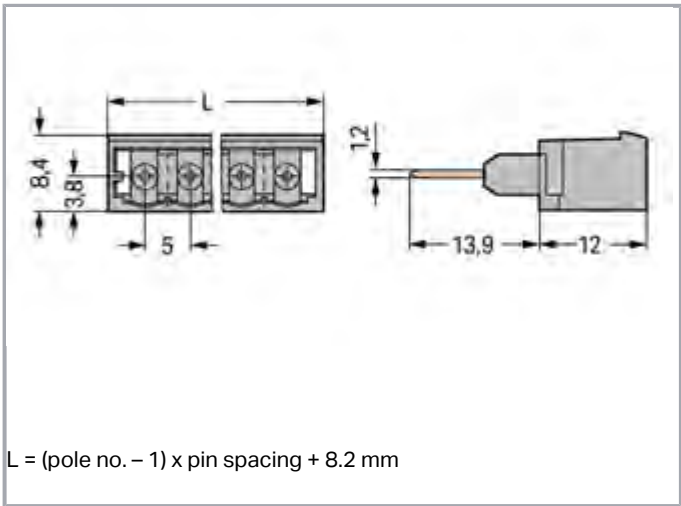


Data sheet | Item number: 231-170/003-000

Male connector for rail-mount terminal blocks; 1.2 x 1.2 mm pins; straight;
Pin spacing 5 mm; 10-pole; gray



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



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 supply should be performed via terminal block (observe rated voltage!)
- With coding fingers

Safety information 1:

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. 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
Nominal voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge 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) ≙ Overvoltage category III / Pollution degree 2

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

**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 1977

Rated voltage UL 1977	600 V
Rated current UL 1977	15 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

Pole No.	10
Total number of potentials	10
Number of connection types	1
Number of levels	1

Geometrical Data

Pin spacing	5 mm / 0.197 inch
Width	53.2 mm / 2.094 inch
Height	25.9 mm / 1.02 inch
Height from the surface	12 mm / 0.472 inch
Depth	8.4 mm / 0.331 inch

Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for front-entry rail-mount terminal block
Mismating protection	No

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

Material Data

Color	gray
Material group	I
Insulation material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.077 MJ
Weight	5.7 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	PL
GTIN	4044918905312
Customs tariff number	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-39756
	CSA DEKRA Certification B.V.	C22.2	1466354

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19-HG1869876-PDA

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



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UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1059	20190731-E45172
	UR UL International Germany GmbH	UL 1977	E45171

Counterpart



Item no. 231-110/026-000

1-conductor female plug; 2.5 mm²; Pin spacing 5 mm; 10-pole; 2,50 mm²; gray

Compatible products

Marking accessories



Item no.: 210-833

Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white



Item no.: 210-834

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

Coding



Item no.: 231-129

Coding key; snap-on type; light gray



Item no.: 231-500

Spacer; for formation of groups; light gray

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

Downloads

CAD/CAE-Data

CAD data

2D/3D Models 231-170/003-000

CAE data

EPLAN Data Portal 231-170/003-000

ZUKEN Portal 231-170/003-000

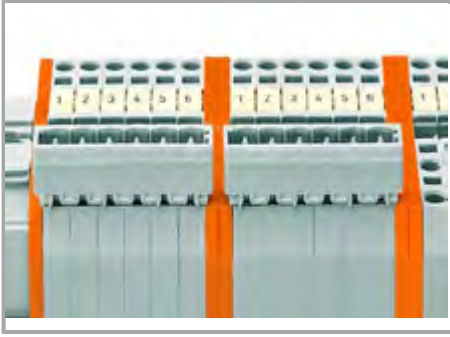
Installation Notes



Inserting a male connector via multipole operating tool.

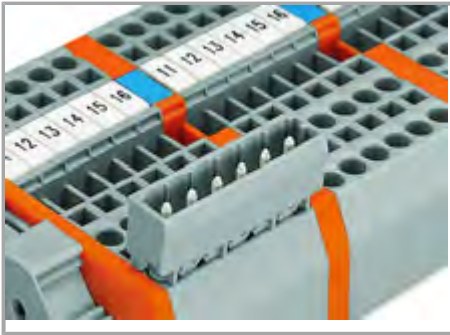
Installation

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



The extra width of the male connectors when used on front-entry, rail-mount terminal blocks must be compensated for by either two intermediate plates or rail-mount spacer block (block assembly).

Installation



Spacer blocks can be bridged via alternate or staggered jumpers.

Product family

MCS MIDI Classic

[Show all products from the family](#)

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