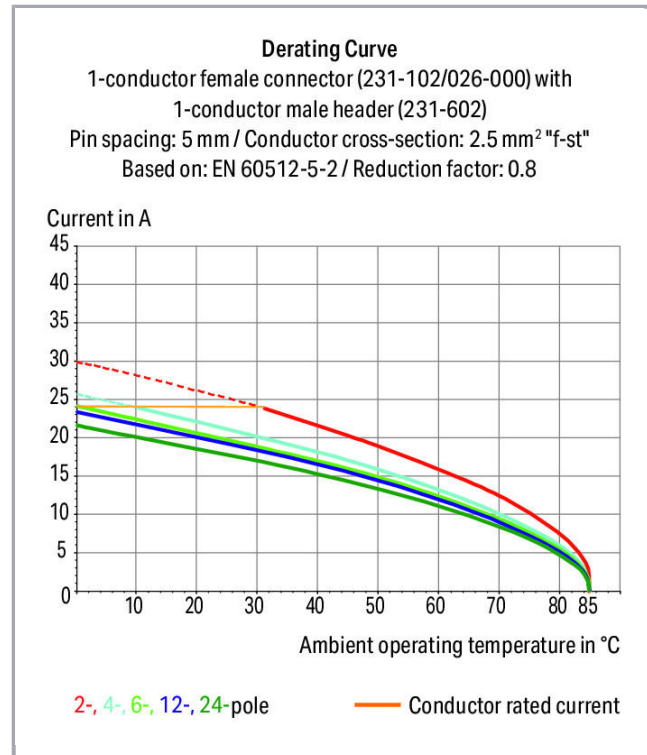


Data sheet | Item number: 231-639

1-conductor male connector; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange

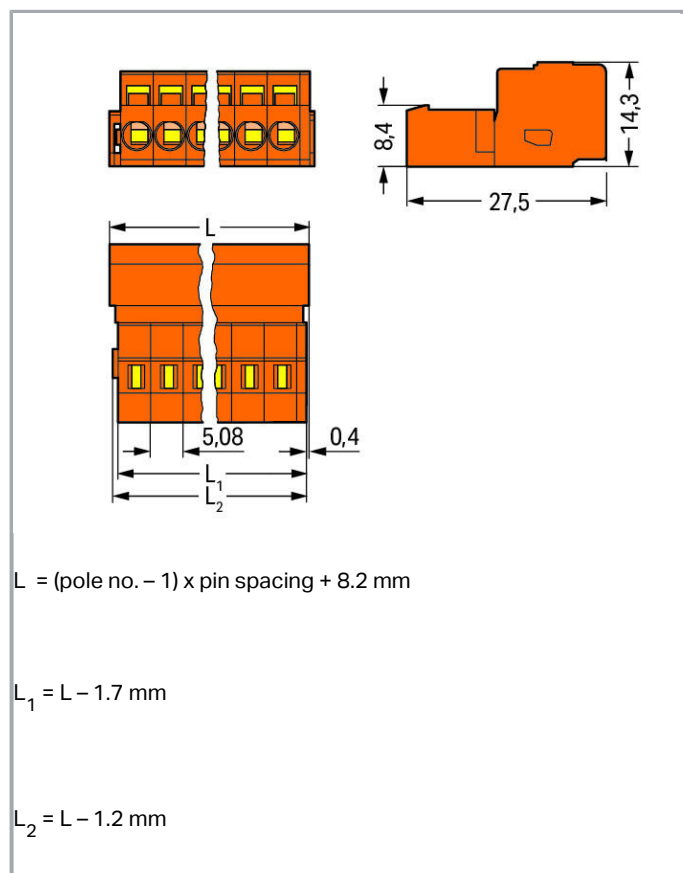
www.wago.com/231-639



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

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Item description

- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- For wire-to-wire and board-to-wire connections
- Versions available with snap-in mounting feet or flanges for panel or through-panel mounting
- 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

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

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**Ratings per IEC/EN 60664-1**

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	320 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	12 A
Legend (ratings)	(III / 2) ≙ 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 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

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0,08 ... 2,5 mm² / 28 ... 12 AWG
Fine-stranded conductor	0,08 ... 2,5 mm² / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0,25 ... 1,5 mm²
Fine-stranded conductor; with uninsulated ferrule	0,25 ... 2,5 mm²
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Pole No.	9

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Total number of connection points	9
Total number of potentials	9
Number of connection types	1
Number of levels	1
Conductor entry direction to mating direction	0°

Geometrical Data

Pin spacing	5,08 mm / 0.2 inch
Width	48,92 mm / 1.926 inch
Height	14,3 mm / 0.563 inch
Depth	27,5 mm / 1.083 inch

Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	No

Material Data

Color	orange
Material group	I
Insulation material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.231 MJ
Weight	14 g

Environmental Requirements

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

Commercial data

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	DE
GTIN	4044918260466

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

Customs tariff number

85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CSA DEKRA Certification B.V.	C22.2	1466354
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	2190761.01

Ship Approvals

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

UL-Approvals

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

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Counterpart

	Item no.2231-309/008-000 1-conductor female plug; push-button; Snap-in mounting feet; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/2231-309/008-000
	Item no.2231-309/026-000 1-conductor female plug; push-button; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/2231-309/026-000
	Item no.2231-309/031-000 1-conductor female plug; push-button; clamping collar; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/2231-309/031-000
	Item no.2231-309/102-000 1-conductor female plug; push-button; with integrated end plate; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/2231-309/102-000
	Item no.2231-309/037-000 1-conductor female plug; push-button; Locking lever; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/2231-309/037-000
	Item no.231-2309/026-000 2-conductor female connector; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/231-2309/026-000
	Item no.231-2309/037-000 2-conductor female connector; Locking lever; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/231-2309/037-000
	Item no.231-309/008-000 1-conductor female plug; Snap-in mounting feet; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/231-309/008-000
	Item no.231-309/026-000 1-conductor female plug; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/231-309/026-000
	Item no.231-309/031-000 1-conductor female plug; clamping collar; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/231-309/031-000
	Item no.231-309/027-000 1-conductor female plug; clamping collar; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/231-309/027-000
	Item no.231-309/037-000 1-conductor female plug; Locking lever; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange	www.wago.com/231-309/037-000
	Item no.232-169 THT female header; 0.6 x 1.0 mm solder pin; straight; Pin spacing 5.08 mm; 9-pole; orange	www.wago.com/232-169

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

**Item no.231-309/102-000**

1-conductor female plug; with integrated end plate; 2.5 mm²; Pin spacing 5.08 mm; 9-pole; 2,50 mm²; orange

www.wago.com/231-309

/102-000

**Item no.232-169/031-000**

THT female header; 0.6 x 1.0 mm solder pin; straight; clamping collar; Pin spacing 5.08 mm; 9-pole; orange

www.wago.com/232-169

/031-000

**Item no.232-169/047-000**

THT female header; 0.6 x 1.0 mm solder pin; straight; Spacer flange; Pin spacing 5.08 mm; 9-pole; orange

www.wago.com/232-169

/047-000

**Item no.232-169/039-000**

THT female header; 0.6 x 1.0 mm solder pin; straight; Locking lever; Pin spacing 5.08 mm; 9-pole; orange

www.wago.com/232-169

/039-000

**Item no.232-269**

THT female header; 0.6 x 1.0 mm solder pin; angled; Pin spacing 5.08 mm; 9-pole; orange

www.wago.com/232-269**Item no.232-269/031-000**

THT female header; 0.6 x 1.0 mm solder pin; angled; clamping collar; Pin spacing 5.08 mm; 9-pole; orange

www.wago.com/232-269

/031-000

**Item no.232-269/039-000**

THT female header; 0.6 x 1.0 mm solder pin; angled; Locking lever; Pin spacing 5.08 mm; 9-pole; orange

www.wago.com/232-269

/039-000

Compatible products

Strain relief plate

**Item no.: 232-639**

Strain relief housing; orange

www.wago.com/232-639

ferrule

**Item no.: 216-101**

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated

www.wago.com/216-101**Item no.: 216-102**

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated

www.wago.com/216-102

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

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	Item no.: 216-103 Ferrule; Sleeve for 1 mm ² / AWG 18; uninsulated; electro-tin plated	www.wago.com/216-103
	Item no.: 216-104 Ferrule; Sleeve for 1.5 mm ² / AWG 16; uninsulated; electro-tin plated	www.wago.com/216-104
	Item no.: 216-106 Ferrule; Sleeve for 2.5 mm ² / AWG 14; uninsulated; electro-tin plated	www.wago.com/216-106
	Item no.: 216-121 Ferrule; Sleeve for 0.5 mm ² / AWG 22; uninsulated; electro-tin plated	www.wago.com/216-121
	Item no.: 216-122 Ferrule; Sleeve for 0.75 mm ² / AWG 20; uninsulated; electro-tin plated	www.wago.com/216-122
	Item no.: 216-123 Ferrule; Sleeve for 1 mm ² / AWG 18; uninsulated; electro-tin plated	www.wago.com/216-123
	Item no.: 216-124 Ferrule; Sleeve for 1.5 mm ² / AWG 16; uninsulated; electro-tin plated	www.wago.com/216-124
	Item no.: 216-131 Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-131
	Item no.: 216-132 Ferrule; Sleeve for 0.34 mm ² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-132
	Item no.: 216-141 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-141
	Item no.: 216-142 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-142
	Item no.: 216-143 Ferrule; Sleeve for 1 mm ² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-143
	Item no.: 216-144 Ferrule; Sleeve for 1.5 mm ² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-144
	Item no.: 216-151 Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-151
	Item no.: 216-152 Ferrule; Sleeve for 0.34 mm ² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-152
	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-201
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203

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

**Item no.: 216-204**Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; blackwww.wago.com/216-204**Item no.: 216-221**Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; whitewww.wago.com/216-221**Item no.: 216-222**Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; graywww.wago.com/216-222**Item no.: 216-223**Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; redwww.wago.com/216-223**Item no.: 216-224**Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; blackwww.wago.com/216-224**Item no.: 216-241**Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; whitewww.wago.com/216-241**Item no.: 216-242**Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; graywww.wago.com/216-242**Item no.: 216-243**Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; redwww.wago.com/216-243**Item no.: 216-244**Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blackwww.wago.com/216-244**Item no.: 216-262**Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; graywww.wago.com/216-262**Item no.: 216-263**Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; redwww.wago.com/216-263**Item no.: 216-264**Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blackwww.wago.com/216-264**Item no.: 216-284**Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blackwww.wago.com/216-284**Item no.: 216-301**Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellowwww.wago.com/216-301**Item no.: 216-302**Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; greenwww.wago.com/216-302**Item no.: 216-321**Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellowwww.wago.com/216-321

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

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**Item no.: 216-322**Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; greenwww.wago.com/216-322**Insulation stop****Item no.: 231-670**Insulation stop; 0.08-0.2 mm² / 0.2 mm² "s"; whitewww.wago.com/231-670**Item no.: 231-671**Insulation stop; 0.25 - 0.5 mm²; light graywww.wago.com/231-671**Item no.: 231-672**Insulation stop; 0.75 - 1 mm²; dark graywww.wago.com/231-672**Jumper****Item no.: 231-902**

Jumper; for conductor entry; gray

www.wago.com/231-902**Item no.: 231-903**

Jumper; for conductor entry; 3-way; insulated; gray

www.wago.com/231-903**Item no.: 231-905**

Jumper; for conductor entry; 5-way; insulated; gray

www.wago.com/231-905**Item no.: 231-907**

Jumper; for conductor entry; 7-way; insulated; gray

www.wago.com/231-907**Item no.: 231-910**

Jumper; for conductor entry; 10-way; insulated; gray

www.wago.com/231-910**Coding****Item no.: 231-129**

Coding key; snap-on type; light gray

www.wago.com/231-129**tools****Item no.: 209-130**

Operating tool; suitable for 264, 280 and 281 Series; 1-way; of insulating material

www.wago.com/209-130**Item no.: 209-132**

Operating tool; for connecting comb-style jumper bar; 2-way; of insulating material

www.wago.com/209-132**Item no.: 210-657**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short

www.wago.com/210-657**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

www.wago.com/210-720**Item no.: 231-131**

Push-button; loose

www.wago.com/231-131**Item no.: 231-291**

Operating tool; loose; red

www.wago.com/231-291

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

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**Item no.: 280-432**

Operating tool; made of insulating material; 2-way

www.wago.com/280-432**Item no.: 280-433**

Operating tool; made of insulating material; 3-way

www.wago.com/280-433**Item no.: 280-434**

Operating tool; made of insulating material; 4-way

www.wago.com/280-434**Item no.: 280-435**

Operating tool; made of insulating material; 5-way; gray

www.wago.com/280-435**Item no.: 280-436**

Operating tool; made of insulating material; 6-way

www.wago.com/280-436**Item no.: 280-437**

Operating tool; made of insulating material; 7-way

www.wago.com/280-437**Item no.: 280-438**

Operating tool; made of insulating material; 8-way

www.wago.com/280-438**Item no.: 280-440**

Operating tool; made of insulating material; 10-way

www.wago.com/280-440**Marking accessories****Item no.: 210-331/508-103**

Marking strips; as a DIN A4 sheet; MARKED; 1-12 (200x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331/508-103**Item no.: 210-331/508-104**

Marking strips; as a DIN A4 sheet; MARKED; 13-24 (200x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331/508-104**Item no.: 210-332/508-202**

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-332/508-202**Item no.: 210-332/508-204**

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-332/508-204**Item no.: 210-332/508-205**

Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-332/508-205**Item no.: 210-332/508-206**

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-332/508-206**Item no.: 210-833**

Marking strips; on reel; 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

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General accessories



Item no.: 231-669

Lockout caps; for covering unused clamping units; orange

www.wago.com/231-669

Downloads

CAD/CAE-Data

CAD data

2D/3D Models 231-639

URL

Download

CAE data

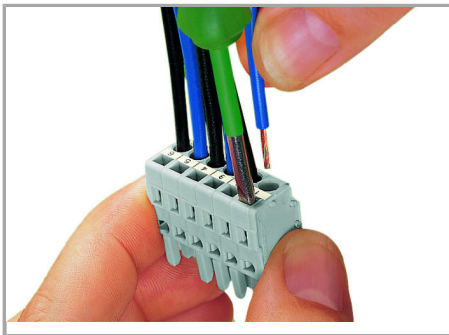
EPLAN Data Portal 231-639

URL

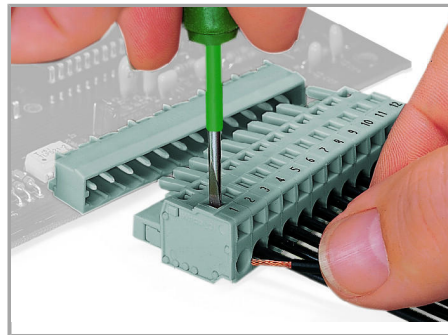
Download

Installation Notes

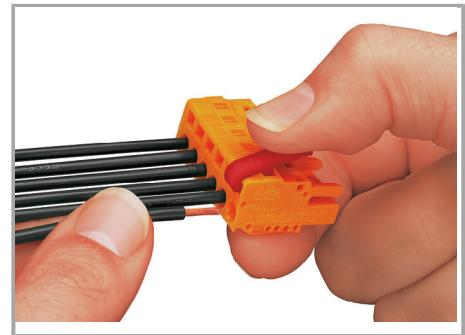
Conductor termination



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.

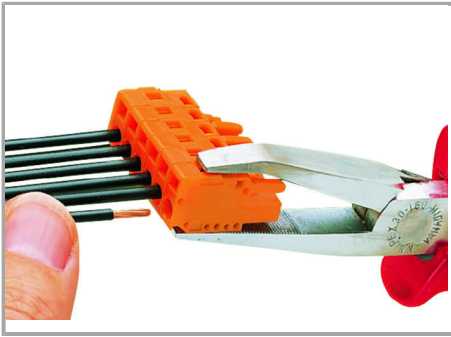


Inserting a conductor into CAGE CLAMP® unit via operating lever (231-291).

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

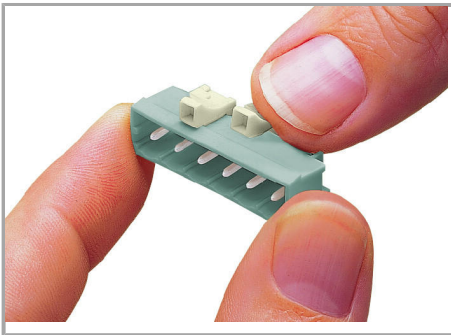
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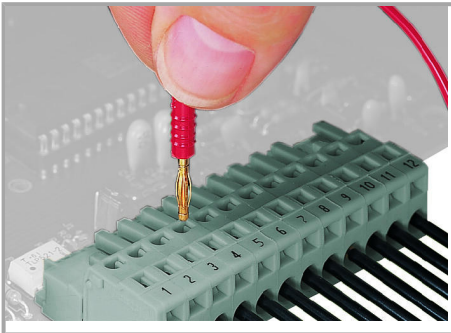
Inserting a conductor via operating tool.

Coding



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

Testing



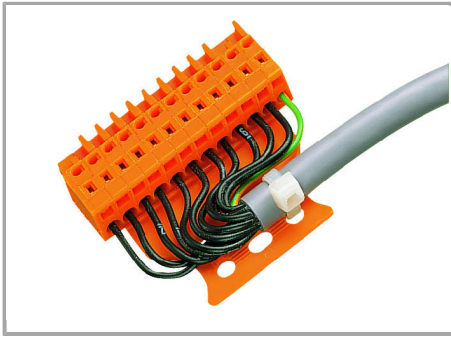
Testing perpendicular to conductor entry via 2 or 2.3 mm Ø test plug – female connector with CAGE CLAMP®.

Installation

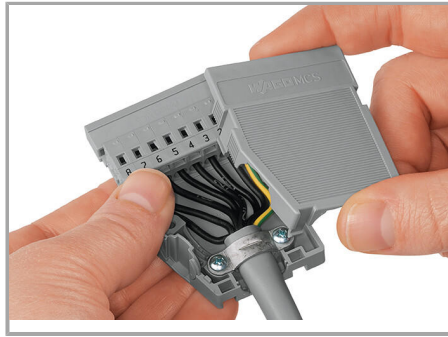
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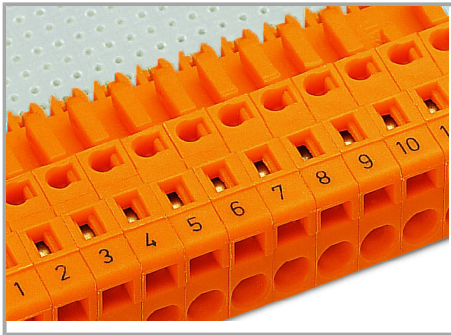


Male connector with strain relief plate



Strain relief housing shown with a male connector equipped with CAGE CLAMP®

Marking



Labeling via direct marking or self-adhesive strips.

Product family

MCS MIDI Classic

[Show all products from the family](#)

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