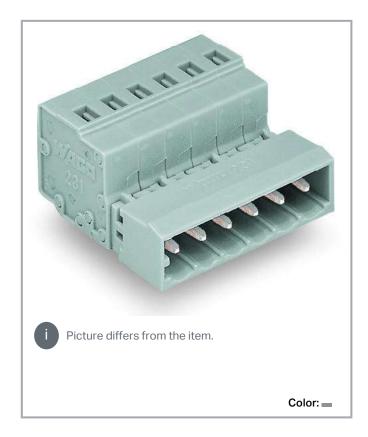
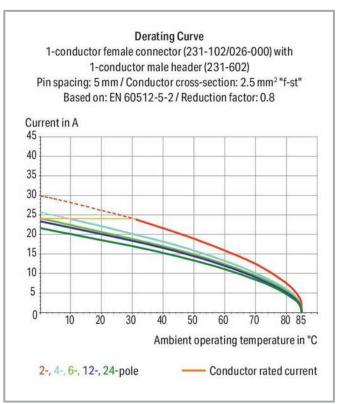
1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 20-pole; Strain relief plate; direct marking; 2,50 mm²; gray



www.wago.com/231-620_000-044_035-000





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

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 $L = (pole no. - 1) \times pin spacing + 8.2 mm$

 $L_1 = L - 1.7 \text{ mm}$

 $L_2 = L - 1.2 \text{ mm}$

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

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

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With coding fingers

Data

Notes

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.
Variants:	Other pole numbers 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/

Electrical data

IEC Approvals

Ratings per	IEC/EN 60664-1
Rated 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

UL Approvals

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

Rated voltage UL 1977	600 V
Rated current UL 1977	15 A

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

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CSA Approvals

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	20	
Number of connection types	1	
Number of levels	1	

Connection 1

Operating tool
0.08 2.5 mm² / 28 12 AWG
0.08 2.5 mm² / 28 12 AWG
0.25 1.5 mm²
0.25 2.5 mm²
8 9 mm / 0.31 0.35 inch
20
0°

Physical data

Pin spacing	5 mm / 0.197 inch
Width	103.2 mm / 4.063 inch
Height	14.3 mm / 0.563 inch
Depth	62.5 mm / 2.461 inch

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	No
Locking of plug-in connection	Without

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

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Material data

le (PA66)
nickel spring steel (CrNi)
tic copper (E _{Cu})
d

Environmental requirements

Limit temperature range	-60 +100 °C	
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Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	10 Stück
Packaging type	box
Country of origin	DE
GTIN	4044918280037
Customs tariff number	85366990990

Approvals / Certificates

Country specific Approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	CSA	C22.2	1466354
	DEKRA Certification B.V.		



Counterpart



Item no.231-120/026-000

Female plug; 20-pole; 12 AWG max; pin spacing 5 mm; 1 conductor per pole; gray

www.wago.com/231-120/026-000

(M)

Item no.232-150

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www.wago.com/231-620_000-044_035-000



THT female header; straight; Pin spacing 5 mm; 20-pole; 0.6 x 1.0 mm solder pin; gray

www.wago.com/232-150



Item no.232-250

THT female header; angled; Pin spacing 5 mm; 20-pole; 0.6 x 1.0 mm solder pin; gray

www.wago.com/232-250

Optional accessories

Cover
Cover

00101		
A - 400	Item no.: 231-668	MANA M200 00m/221_669
	Lockout caps; for covering unused clamping units; gray	www.wago.com/231-668
Tools		
Operating t	ool	
	Item no.: 209-130	
	Operating tool; suitable for 264, 280 and 281 Series; 1-way; of insulating material; white	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
J.	Item no.: 231-159	www.wago.com/231-159
	Operating tool; natural	www.wago.com/251-155
	Item no.: 210-250	(0.10.070
2	Operating tool; for MCS MINI & MIDI with CAGE CLAMP® connection; red	www.wago.com/210-250
#	Item no.: 231-231	www.wago.com/231-231
	Combination operating tool; red	www.wago.com/231-231
/	Item no.: 210-657	(0.10.055
	Operating tool; Blade: 3.5×0.5 mm; with a partially insulated shaft; short; multicoloured	www.wago.com/210-657
/	Item no.: 210-720	www.waga.com/210.720
	Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-720
	Item no.: 231-131	
GI.	Operating tool; made of insulating material; 1-way; loose; white	www.wago.com/231-131
	Item no.: 231-291	
61	Operating tool; made of insulating material; 1-way; loose; red	www.wago.com/231-291
	Item no.: 280-432	
	Operating tool; made of insulating material; 2-way; white	www.wago.com/280-432
	Item no.: 280-434	www.wago.com/280-434
=	Operating tool; made of insulating material; 4-way	

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

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Item no.: 280-437 Operating tool; made of insulating material; 7-way www.wago.com/280-437

Item no.: 280-440 Operating tool; made of insulating material; 10-way

www.wago.com/280-440

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.: 280-438

Operating tool; made of insulating material; 8-way

www.wago.com/280-438



Item no.: 280-433

Operating tool; made of insulating material; 3-way

www.wago.com/280-433

Coding

Coding



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

www.wago.com/231-129

Ferrules

Ferrule		
I	Item no.: 216-101 Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored	ww

ww.wago.com/216-101

Item no.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

www.wago.com/216-104

Item no.: 216-106

Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

www.wago.com/216-106

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

www.wago.com/216-102 www.wago.com/216-103

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated

Item no.: 216-102

Item no.: 216-103

Item no.: 216-123

www.wago.com/216-123

Item no.: 216-122

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

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored

www.wago.com/216-122

Item no.: 216-124

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

www.wago.com/216-124

Item no.: 216-142

Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

www.wago.com/216-142

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

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1	Item no.: 216-132 Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-132
1	Item no.: 216-121 Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-121
1	Item no.: 216-143 Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-143
1	Item no.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-131
1	Item no.: 216-141 Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	www.wago.com/216-141
1	Item no.: 216-152 Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-152
	Item no.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203
i .	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
1	Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-151
i	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-204
1	Item no.: 216-144 Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored	www.wago.com/216-144
1	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-201
	Item no.: 216-223 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
1	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; white	www.wago.com/216-241
ı	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; gray	www.wago.com/216-242
1	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-222
1	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-221
ı	Item no.: 216-224	www.wago.com/216-224

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

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	Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plate	ed; black	
	Item no.: 216-243 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated acc. to DIN 46228, Part 4/09.90; red	; electrolytic copper; gastight crimped;	www.wago.com/216-243
	Item no.: 216-244 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plate crimped; acc. to DIN 46228, Part 4/09.90; black	ed; electrolytic copper; gastight	www.wago.com/216-244
	Item no.: 216-263 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated acc. to DIN 46228, Part 4/09.90; red	; electrolytic copper; gastight crimped;	www.wago.com/216-263
	Item no.: 216-264 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plate crimped; acc. to DIN 46228, Part 4/09.90; black	ed; electrolytic copper; gastight	www.wago.com/216-264
	Item no.: 216-284 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plate crimped; acc. to DIN 46228, Part 4/09.90; black	ed; electrolytic copper; gastight	www.wago.com/216-284
	Item no.: 216-262 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin placetimped; acc. to DIN 46228, Part 4/09.90; gray	ted; electrolytic copper; gastight	www.wago.com/216-262
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin pla	ted; yellow	www.wago.com/216-301
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin pla	ted; yellow	www.wago.com/216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin pla	ted; green	www.wago.com/216-322
i	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin pla	ted; light turquoise	www.wago.com/216-302
Jumpers			
Jumper			
CANAL STATE	Item no.: 231-905 Jumper; for conductor entry; 5-way; insulated; gray		www.wago.com/231-905
and the same	Item no.: 231-903 Jumper; for conductor entry; 3-way; insulated; gray		www.wago.com/231-903
	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
33	Item no.: 231-902 Jumper; for conductor entry; 2-way; insulated; gray		www.wago.com/231-902
nsulations st	ops		
Insulation st			
Subject to cha	anges. Please also observe the further product documentation!		
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Item no.: 231-672

Insulation stop; 0.75 - 1 mm²; dark gray

www.wago.com/231-672



Item no.: 231-670

Insulation stop; 0.08-0.2 mm² / 0.2 mm² "s"; white

www.wago.com/231-670



Item no.: 231-671

Insulation stop; 0.25 - 0.5 mm²; light gray

www.wago.com/231-671

/500-204

Marking accessories

viarking ac	cessories	
Marking	strip	
	Item no.: 210-331/500-103 Marking strips; as a DIN A4 sheet; MARKED; 1-12 (300x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /500-103
	Item no.: 210-331/500-104 Marking strips; as a DIN A4 sheet; MARKED; 13-24 (300x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /500-104
	Item no.: 210-332/500-202 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 /500-202
	Item no.: 210-332/500-206 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 /500-206
	Item no.: 210-332/500-205 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 /500-205
	Item no.: 210-332/500-204 Marking strips: as a DIN A4 sheet: MARKED: 17-32 (160x): Height of marker strip: 3 mm; Strip length	www.wago.com/210-332

Downloads

Documentation

Additional Information

Technical explanations 2019 Apr 3 pdf Download 2.0 MB

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

Installation Notes

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

182 mm; Horizontal marking; Self-adhesive; white

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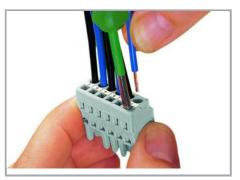
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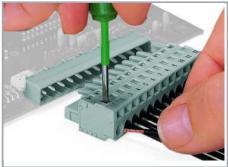
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Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.



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

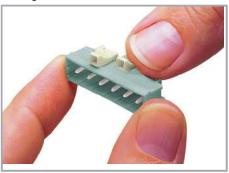


Inserting a conductor into CAGE CLAMP® unit via operating lever (231-291).



Inserting a conductor via operating tool.

Coding



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

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

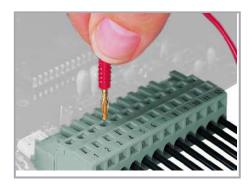
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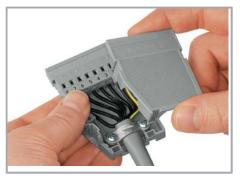
Testing – female connector with CAGE CLAMP®

Integrated test ports for testing perpendicular to conductor entry via 2 or 2.3 mm \emptyset test plug

Installation



Male connector with strain relief plate



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

Marking

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

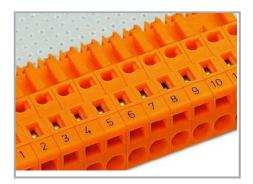
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Labeling via direct marking or self-adhesive strips.

Product family

MCS MIDI Classic Show all products from the family

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

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