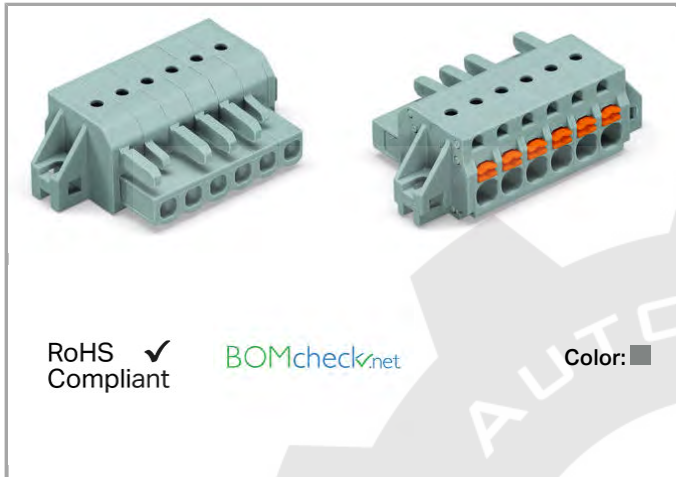


Data sheet | Item number: 2231-102/031-000

1-conductor female plug; push-button; clamping collar; 2.5 mm²; Pin spacing
5 mm; 2-pole; 2,50 mm²; gray



2231-102_031-000



RoHS
Compliant

BOMcheck.net

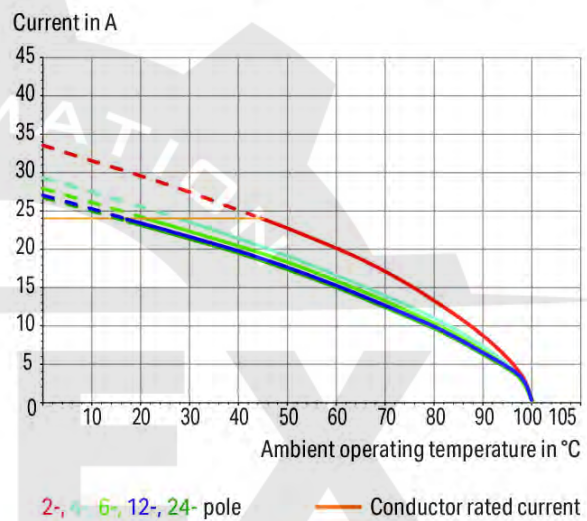
Color: ■

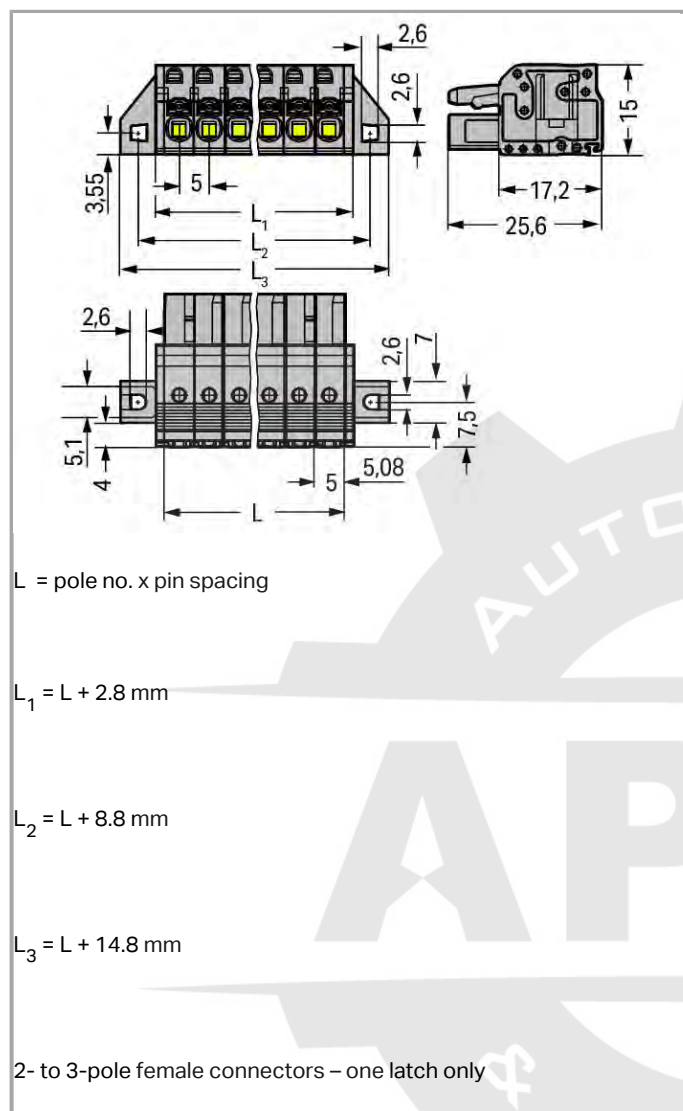
Derating Curve

1-conductor female connector (2231-102/026-000) with
THT male header (231-162/001-000)

Pin spacing: 5 mm / Conductor cross-section: 2.5 mm² "f-st"

Based on: EN 60512-5-2 / Reduction factor: 0.8





Item description

- Universal connection for all conductor types
- Easy-to-use design does not require specialty tools
- Ability to wire while mated
- Push-in termination of solid and ferruled conductors
- Integrated test ports for testing parallel to the conductor entry
- With coding fingers

Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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

Rated 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
Rated voltage (II / 2)	630 V
Rated impulse voltage (II / 2)	4 kV
Rated current	16 A

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 C)	150 V
Rated current UL (Use Group C)	15 A
Rated voltage UL (Use Group D)	300 V

Approvals per UL 1977

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	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 C)	150 V
Rated current CSA (Use Group C)	15 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data

Connection technology	Push-in CAGE CLAMP®		
Actuation type	Push-button		
Solid conductor	0.2	2.5 mm² / 24	12 AWG
Fine-stranded conductor	0.2	2.5 mm² / 24	12 AWG
Fine-stranded conductor with ferrule with plastic collar	0.25	1.5 mm²	
Fine-stranded conductor with ferrule without plastic collar	0.25	2.5 mm²	
Strip length	10	11 mm / 0.39	0.43 inch



Total number of connection points	2
Total number of potentials	2
Number of connection types	1
Number of levels	1
Conductor entry direction to mating direction	0°
No. of poles	2

Geometrical Data

Pin spacing	5 mm / 0.197 inch
Width	24.8 mm / 0.976 inch
Height	15 mm / 0.591 inch
Depth	25.6 mm / 1.008 inch

Mechanical data

Mounting type	Mounting flange
Type of mounting	Feed-through mounting Panel mounting

Plug connection

Contact type (pluggable connector)	Female connector/socket
Connector connection type	for conductors
Mismating protection	No

Material Data

Color	gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	tin-plated
Fire load	0.093 MJ
Weight	4.049 g

Environmental Requirements

Limit temperature range	-60 +100 °C
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Commercial data

Product Group	3 (Multi Conn. System)
Country of origin	PL

GTIN	4045454875398
Customs Tariff No.	85366990990

Approvals / Certificates

Radio-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-39756
	CSA DEKRA Certification B.V.	C22.2 No. 158	2314554
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	2190761.01

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 No. 158	2314554
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	2190761.01

Other Approvals

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

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
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UL
Underwriters Laboratories Inc.

UL 1059

E45172-
19911118



UR
UL International Germany GmbH

UL 1977

E45171

Compatible products

Strain relief plate



Item no.: 734-327
Strain relief plate; gray

734-327

assembling



Item no.: 209-147
Self-tapping screw

209-147



Item no.: 231-194
Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø

231-194



Item no.: 231-195
Screw with nut; M2x12; for fixing element

231-195



Item no.: 231-295
Screw with nut

231-295

check



Item no.: 210-136
Test plug; 2 mm Ø; with 500 mm cable; red

210-136



Item no.: 231-661
Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray

231-661

tools



Item no.: 210-657
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short

210-657



Item no.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

210-720

Marking accessories

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

210-332

210-332

Item no.: 210-332/500-204		210-332
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		1500-204
Item no.: 210-332/500-205		210-332
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		1500-205
Item no.: 210-332/500-206		210-332
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		1500-206
	Item no.: 210-833	210-833
	Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white	
	Item no.: 210-834	210-834
	Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white	
ferrule		
	Item no.: 216-101	216-101
	Ferrule; Sleeve for 0.5 mm ² / AWG 22; uninsulated; electro-tin plated	
	Item no.: 216-102	216-102
	Ferrule; Sleeve for 0.75 mm ² / AWG 20; uninsulated; electro-tin plated	
	Item no.: 216-103	216-103
	Ferrule; Sleeve for 1 mm ² / AWG 18; uninsulated; electro-tin plated	
	Item no.: 216-104	216-104
	Ferrule; Sleeve for 1.5 mm ² / AWG 16; uninsulated; electro-tin plated	
	Item no.: 216-106	216-106
	Ferrule; Sleeve for 2.5 mm ² / AWG 14; uninsulated; electro-tin plated	
	Item no.: 216-121	216-121
	Ferrule; Sleeve for 0.5 mm ² / AWG 22; uninsulated; electro-tin plated	
	Item no.: 216-122	216-122
	Ferrule; Sleeve for 0.75 mm ² / AWG 20; uninsulated; electro-tin plated	
	Item no.: 216-123	216-123
	Ferrule; Sleeve for 1 mm ² / AWG 18; uninsulated; electro-tin plated	
	Item no.: 216-124	216-124
	Ferrule; Sleeve for 1.5 mm ² / AWG 16; uninsulated; electro-tin plated	
	Item no.: 216-131	216-131
	Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated	
	Item no.: 216-132	216-132
	Ferrule; Sleeve for 0.34 mm ² / AWG 24; uninsulated; electro-tin plated	
	Item no.: 216-141	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	
	Item no.: 216-142	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	
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	216-143
	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	216-144
	Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	216-151
	Item no.: 216-152 Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	216-152
	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	216-201
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	216-203
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	216-204
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	216-221
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	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; white	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; gray	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; red	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; black	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; gray	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; red	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; black	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; black

216-284

Item no.: 216-301

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

216-301

**Item no.: 216-302**

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green

216-302

Item no.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

216-321

**Item no.: 216-322**

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green

216-322

Insulation stop**Item no.: 231-671**

Insulation stop; 0.25 - 0.5 mm²; light gray

231-671

**Item no.: 231-672**

Insulation stop; 0.75 - 1 mm²; dark gray

231-672

Downloads**Documentation****Additional Information**

Technical explanations

Apr 3, 2019

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CAD/CAE - Smart Data**CAD data**

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Subject to changes.