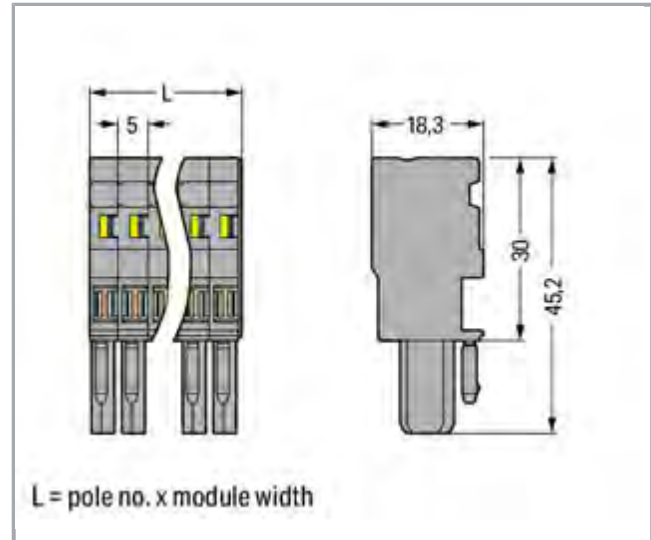
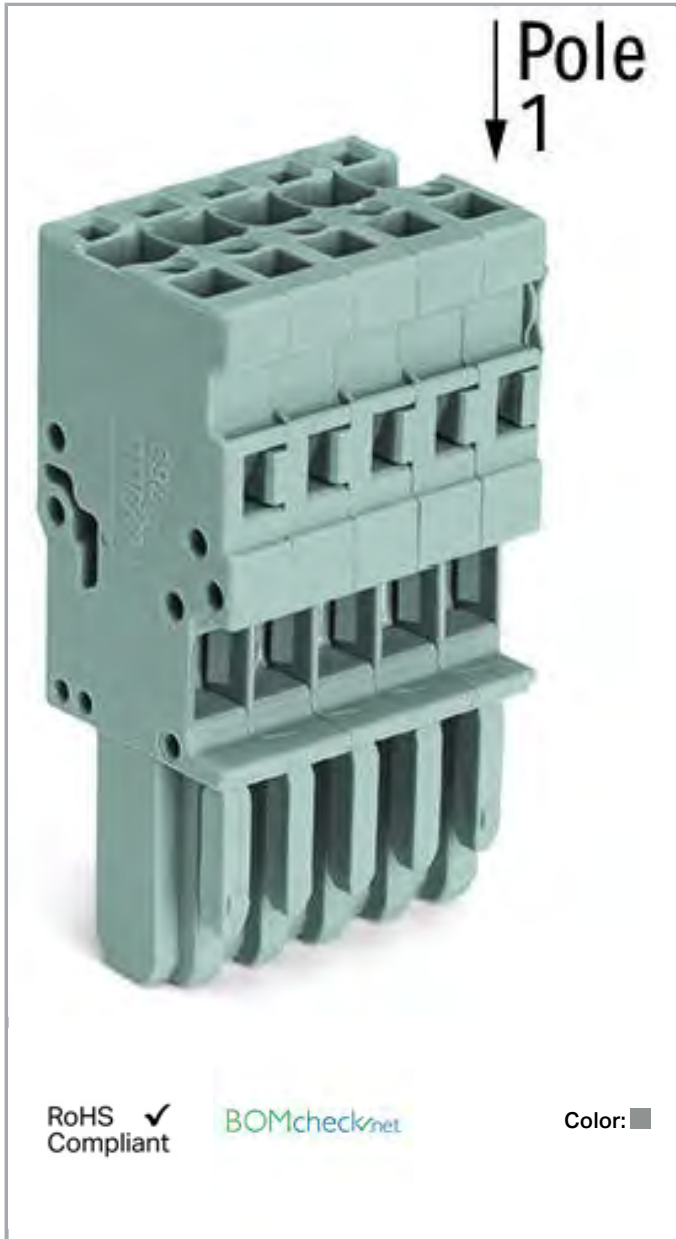




Item description

According to EN 61984, pluggable connectors without current interrupting capacity must not be mated or unmated when live or under load.

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

**Safety information 1:**

According to EN 61984, pluggable connectors without current interrupting capacity must not be mated or unmated when live or under load.

Data**Electrical data****Ratings per IEC/EN 60664-1**

Ratings per	IEC/EN 61984
Nominal voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated current	32 A
Legend (ratings)	(III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3

Connection data

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	4 mm²
Solid conductor	0.08 ... 4 mm² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 4 mm² / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Pole No.	6
Total number of connection points	6
Total number of potentials	6
Wiring type	Front-entry wiring

Geometrical Data

Width	30 mm / 1.181 inch
Height	45.2 mm / 1.78 inch
Depth	18.3 mm / 0.72 inch
Module width	5 mm / 0.197 inch

Mechanical data

Marking level	Side marking
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Subject to changes. Please also observe the further product documentation!

Plug connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor

Material Data

Color	gray
Insulation material	Polyamide 66 (PA66)
Fire load	0.32 MJ
Weight	18.9 g

Commercial data

Product Group	18 (X-COM-System)
Packaging type	BOX
Country of origin	DE
GTIN	4044918471510
Customs tariff number	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL-7626
	CCA DEKRA Certification B.V.	EN 61984	2190419.02
	CCA DEKRA Certification B.V.	IEC 61984	NL-47799 /A1
	CSA DEKRA Certification B.V.	C22.2 No. 158	1101144
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	2190419.01

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

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	EN 60947	20-HG1941090-PDA

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UR Underwriters Laboratories Inc.	UL 1059	20190731-E45172
	UR Underwriters Laboratories Inc.	UL 1977	20151210-E45171

Compatible products

Insulation stop



Item no.: 769-470
Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white



Item no.: 769-471
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray



Item no.: 769-472
Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

Jumper



Item no.: 769-402
Jumper; insulated; gray

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

Marking accessories

	Item no.: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white
	Item no.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow
	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red
	Item no.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue
	Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray
	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
	Item no.: 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green
	Item no.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet
	Item no.: 210-805 Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; white
	Item no.: 210-805/000-002 Labels; for Smart Printer; permanent adhesive; 6 x 15 mm; yellow
	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white
	Item no.: 210-834 Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white
	Item no.: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card
	Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

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



Item no.: 248-501/000-005
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red



Item no.: 248-501/000-006
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue



Item no.: 248-501/000-007
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray



Item no.: 248-501/000-012
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange



Item no.: 248-501/000-017
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green



Item no.: 248-501/000-023
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green



Item no.: 248-501/000-024
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

ferrule



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



Item no.: 216-102
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated



Item no.: 216-103
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated



Item no.: 216-104
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated



Item no.: 216-201
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



Item no.: 216-202
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



Item no.: 216-203
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

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; black



Item no.: 216-206
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue

Item no.: 216-301
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



Item no.: 216-302
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green

protection



Item no.: 769-436
Jumper cover; for 1-conductor female plugs; for 5 poles; gray

check



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



Item no.: 210-137
Test plug; 2.3 mm Ø; with 500 mm cable; yellow

Protective Warning Marker



Item no.: 280-415
Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow

Locking lever



Item no.: 769-428
Locking lever; gray



Item no.: 769-429
Locking lever; orange



Item no.: 769-430
Locking lever; gray



Item no.: 769-431
Locking lever; orange

Strain relief plate



Item no.: 769-1606
Strain relief housing; gray



Item no.: 769-413
Strain relief plate; gray

Male plug



Item no.: 769-606
1-conductor male connector; 4 mm²; Pin spacing 5 mm; 6-pole; 4,00 mm²; gray

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

**Item no.: 769-606/001-000**1-conductor male connector; Snap-in mounting feet; 4 mm²; Pin spacing 5 mm; 6-pole; 4,00 mm²; gray**Item no.: 769-606/002-000**1-conductor male connector; clamping collar; 4 mm²; Pin spacing 5 mm; 6-pole; 4,00 mm²; gray**Item no.: 769-606/004-000**1-conductor male connector; Feedthrough flange; 4 mm²; Pin spacing 5 mm; 6-pole; 4,00 mm²; gray**Item no.: 769-606/005-000**1-conductor male connector; Snap-in flange; 4 mm²; Pin spacing 5 mm; 6-pole; 4,00 mm²; gray**Item no.: 769-606/006-000**1-conductor male connector; Snap-in flange; 4 mm²; Pin spacing 5 mm; 6-pole; 4,00 mm²; gray**Item no.: 769-636**

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 6-pole; gray

**Item no.: 769-636/003-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; clamping collar; Pin spacing 5 mm; 6-pole; gray

**Item no.: 769-636/003-036**

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 6-pole; gray

**Item no.: 769-636/004-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 6-pole; gray

**Item no.: 769-636/007-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; clamping collar; Pin spacing 5 mm; 6-pole; gray

**Item no.: 769-666**

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 6-pole; gray

**Item no.: 769-666/003-000**

THT male header; 1.0 x 1.0 mm solder pin; angled; clamping collar; Pin spacing 5 mm; 6-pole; gray

**Item no.: 769-666/004-000**

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 6-pole; gray

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



Downloads Documentation

Bid Text

769-106	Oct 4, 2017
doc - Datei	

769-106	Feb 19, 2019
GAEB X81 - Datei	

Additional Information Technical explanations

Apr 3, 2019

CAD/CAE-Data

CAD data

2D/3D Models 769-106

CAE data

EPLAN Data Portal 769-106

WSCAD Universe 769-106

ZUKEN Portal 769-106

Installation Notes

Conductor termination

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



CAGE CLAMP® connection



Operating lever



Operating tool

Female plug: Inserting/removing a conductor via operating tool.

Inserting a conductor via operating tool – side-entry wiring (example shows a female plug).

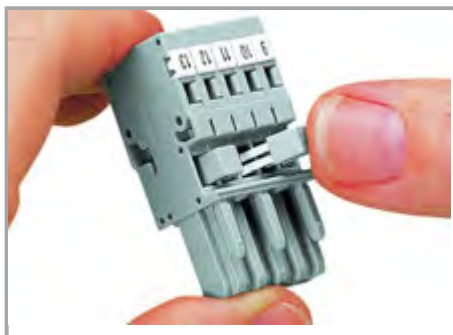
Inserting a conductor via operating tool – side-entry wiring (example shows a female plug).

Operation 90° to conductor is also possible.

With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

Commoning



Commoning 1-conductor female plugs via miniature adjacent jumpers.



Jumper cover for 1-conductor female plugs

Coding

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



Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

Locking lever



Locking/releasing a lever.

Strain relief



Removing a female plug via conductor bundle provided with strain relief plate.

Marking

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



Labeling a female plug with CAGE CLAMP® connection via Mini-WSB quick markers.

Product family

X-COM

[Show all products from the family](#)

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