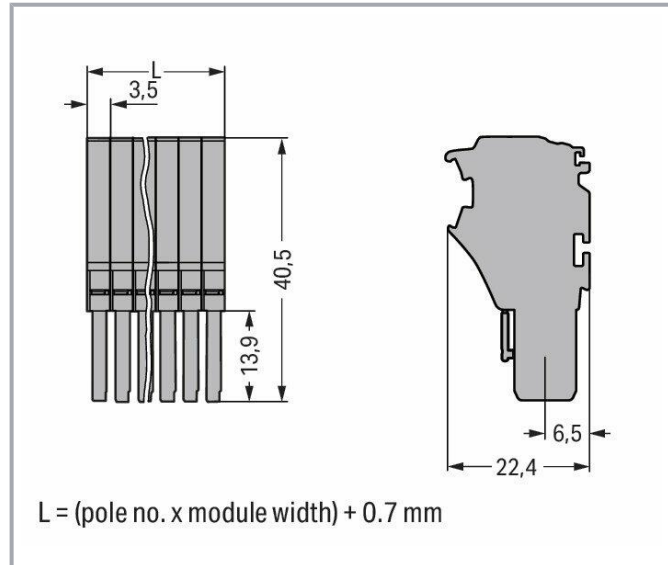
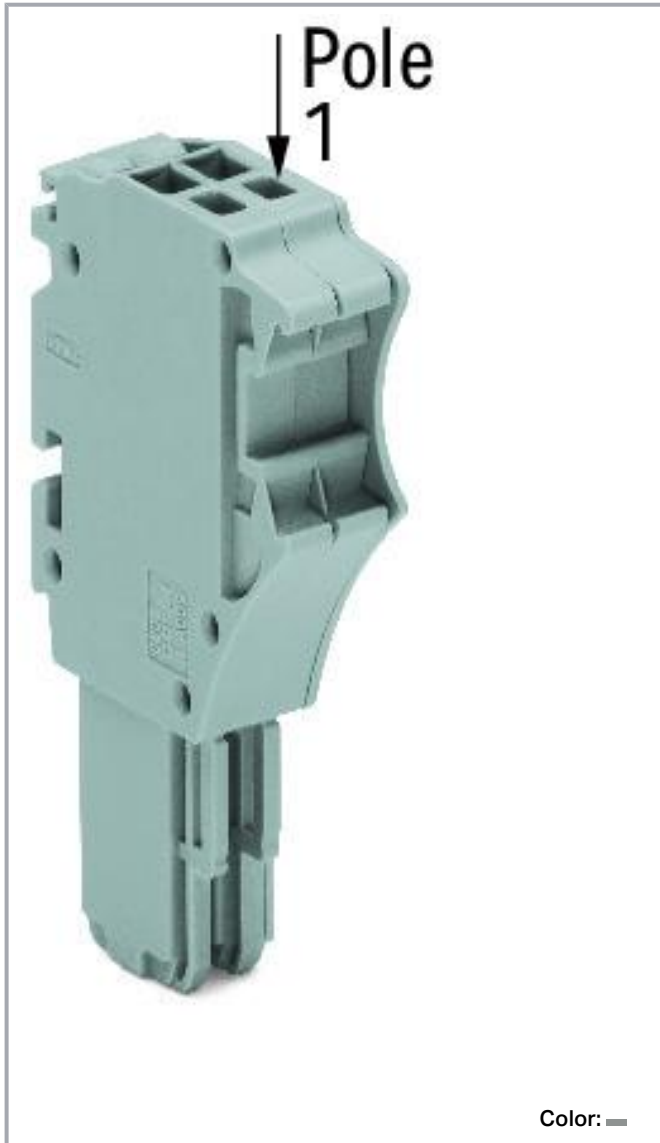


Data sheet | Item number: 2020-102

1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; gray

www.wago.com/2020-102



**Data
Notes**

Safety information

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

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

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under load.

Safety information 2

Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 61984
Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated current	13.5 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per UL

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

Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	10 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data

Connection points	2
Total number of potentials	2

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



Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	1 mm ²
Solid conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm ² / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm ² / 20 ... 18 AWG
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches
Pole number	2
Wiring direction	Front-entry wiring

Physical data

Width	7.7 mm / 0.303 inches
Height	40.5 mm / 1.594 inches
Depth	22.4 mm / 0.882 inches
Module width	3.5 mm / 0.138 inches

Mechanical Data

Variable coding	Yes
Marking level	Side marking
Anti-rotation protection	Yes

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	No
Plugging without loss of pin spacing	No

Material data

Note (material data)

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

Information on material specifications can be found here

Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.091 MJ
Weight	4.9 g

Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

Commercial data


eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
ECCN	NO DATA
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821245025
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL 7617
	CSA DEKRA Certification B.V.	C22.2	2516073

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





UL
UL International Germany GmbH

UL 1059





E 45172



Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

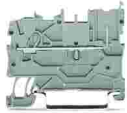


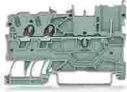
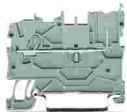



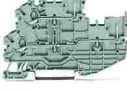

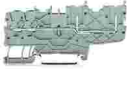

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	EN 60947	20- HG1941090- PDA
	BV Bureau Veritas S.A.	EN 60947	38586/B0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
	LR Lloyds Register	EN 60947	91/20112 (E9)

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Counterpart

	Item no.2020-1201 1-conductor/1-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray	www.wago.com/2020-1201
	Item no.2020-1304 2-conductor/1-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; blue	www.wago.com/2020-1304
	Item no.2020-1207 1-conductor/1-pin ground carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; green-yellow	www.wago.com/2020-1207
	Item no.2020-1301 2-conductor/1-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray	www.wago.com/2020-1301
	Item no.2020-1204 1-conductor/1-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; blue	www.wago.com/2020-1204
	Item no.2020-1307 2-conductor/1-pin ground carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; green-yellow	www.wago.com/2020-1307
	Item no.2020-2201 1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; L/L; without marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray	www.wago.com/2020-2201
	Item no.2020-2202 1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; N/L; without marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray	www.wago.com/2020-2202
	Item no.2020-2203 1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; L/N; without marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray	www.wago.com/2020-2203
	Item no.2020-2204 1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; N/N; without marker carrier; suitable for Ex i applications; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; blue	www.wago.com/2020-2204
	Item no.2020-1401 2-conductor/2-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray	www.wago.com/2020-1401
	Item no.2020-2207 2-conductor/2-pin, double-deck carrier terminal block; 2-conductor/2-pin ground terminal block; PE; internal commoning; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; green-yellow	www.wago.com/2020-2207
	Item no.2020-2208	

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



2-conductor/2-pin, double-deck carrier terminal block; 2-conductor/2-pin through terminal block; L/L; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

www.wago.com/2020-2208

**Item no.2020-2217**

1-conductor/1-pin double deck receptacle terminal block; Ground conductor/through terminal block; PE/N; without marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

www.wago.com/2020-2217

**Item no.2020-2209**

2-conductor/2-pin, double-deck carrier terminal block; 2-conductor/2-pin through terminal block; N; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; blue

www.wago.com/2020-2209

**Item no.2020-1407**

2-conductor/2-pin ground carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; green-yellow

www.wago.com/2020-1407

**Item no.2020-2227**

1-conductor/1-pin double deck receptacle terminal block; Ground conductor/through terminal block; PE/L; without marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

www.wago.com/2020-2227

**Item no.2020-2231**

1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; L/L; with marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

www.wago.com/2020-2231

**Item no.2020-2232**

1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; N/L; with marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

www.wago.com/2020-2232

**Item no.2020-2234**

1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; N/N; with marker carrier; suitable for Ex i applications; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; blue

www.wago.com/2020-2234

Optional accessories

Strain relief

Strain relief plate

**Item no.: 734-327**

Strain relief plate; for female and male connectors; 6 mm wide; 1 part; gray

www.wago.com/734-327

Tool

Operating tool

**Item no.: 210-648**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

www.wago.com/210-648

**Item no.: 210-647**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-647

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

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Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Protective warning marker

Cover



Item no.: 2000-115

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

www.wago.com/2000-115

Marking accessories

Marking strip



Item no.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

www.wago.com/2009-110



Item no.: 210-831

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

www.wago.com/210-831



Item no.: 210-833

Marking strips; 25 m on roll; 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



Item no.: 210-832

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

www.wago.com/210-832

Marker



Item no.: 2009-113

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

www.wago.com/2009-113



Item no.: 793-3501

WMB marking card; as card; plain; snap-on type; white

www.wago.com/793-3501

Screwless end stop

Mounting accessories



Item no.: 249-117

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

www.wago.com/249-117

Ferrule

Ferrule



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

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

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	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242
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	Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243
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Locking levers

Locking system		
	Item no.: 2022-141 Locking lever; gray	www.wago.com/2022-141
	Item no.: 2022-142 Locking lever; orange	www.wago.com/2022-142

Downloads

Documentation

Bid Text

2020-102 X81 - Datei	2019 Feb 19	xml 4.0 kB	Download
2020-102 docx - Datei	2018 Aug 6	docx 15.3 kB	Download

Additional Information

		pdf 2.3 MB	Download
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CAD/CAE-Data

CAE data

WSCAD Universe 2020-102		URL	Download
ZUKEN Portal 2020-102		URL	Download
EPLAN Data Portal 2020-102		URL	Download

CAD data

2D/3D Models 2020-102		URL	Download
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Asset Administration Shell

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

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2020-102

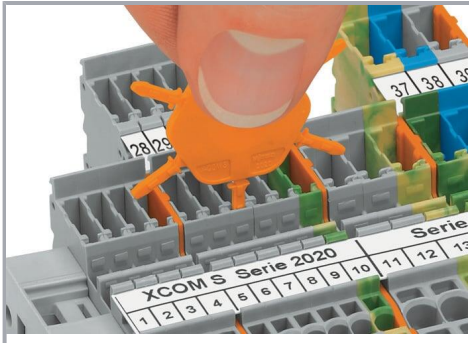
[URL](#)

[Download](#)

1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm;
2-pole; 1,50 mm²; gray

Installation Notes

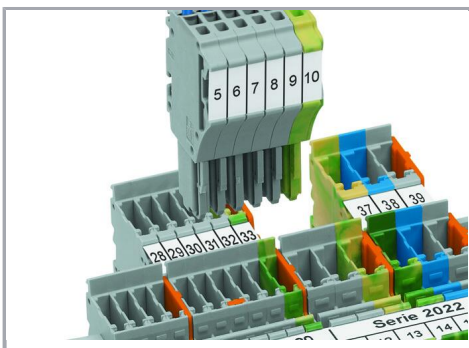
Coding



Insert coding pin into the corresponding slot and twist it off.



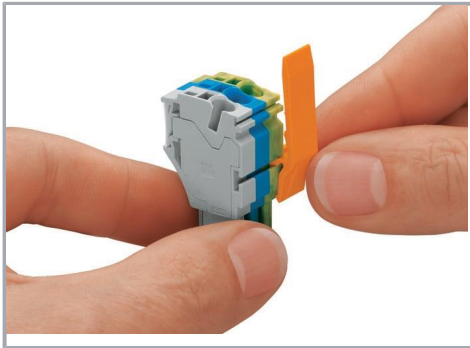
Coding a female plug: remove coding finger using a suitable tool.



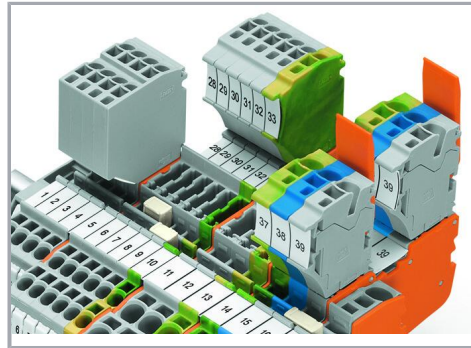
Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

Locking system

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



Slide the locking lever into position.



Female plugs can be individually locked.

Product family

X-COM S-Mini

[Show all products from the family](#)

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

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