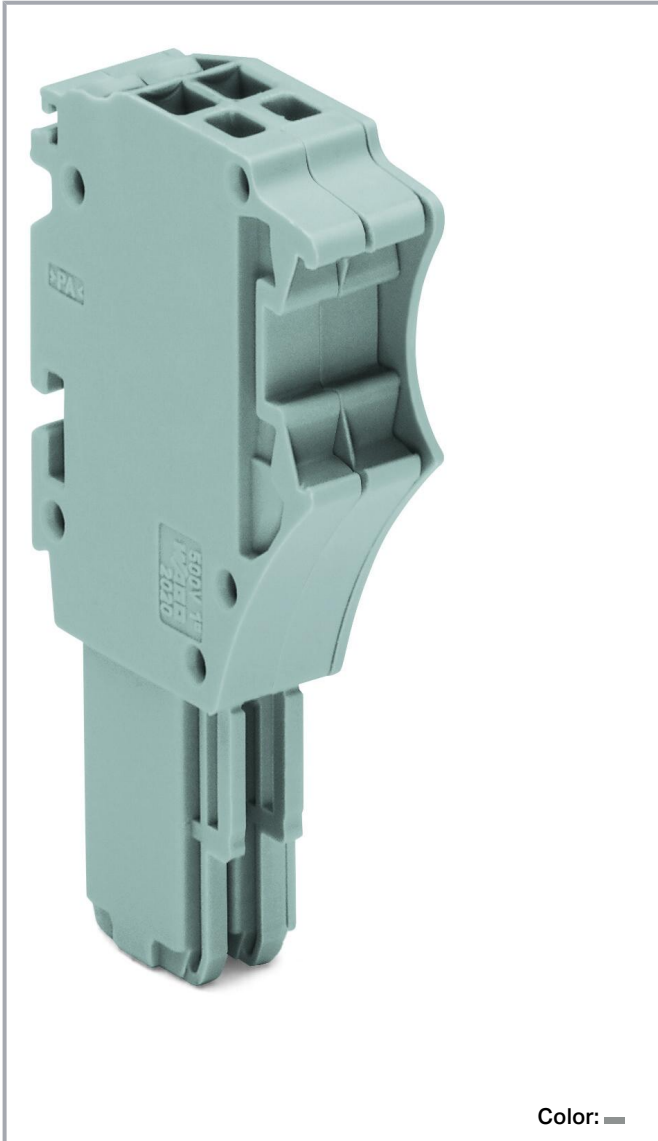


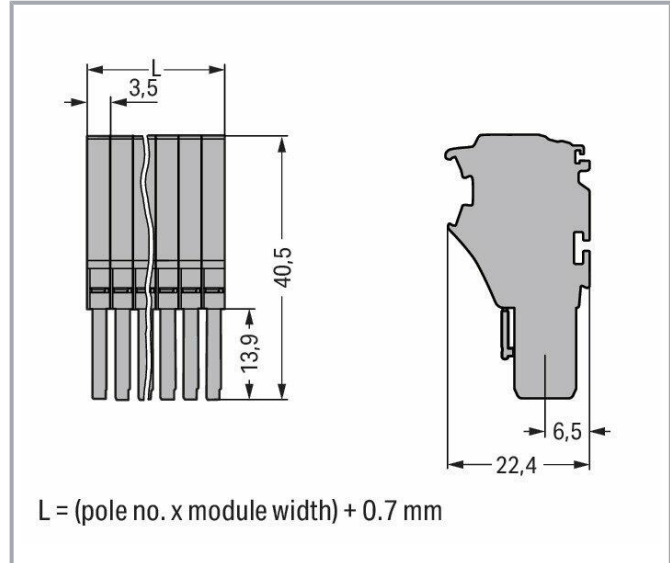
**Data sheet | Item number: 2020-102**

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](http://www.wago.com/2020-102)



Color: —



**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.

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 1059

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 <sup>2</sup>
Solid conductor	0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm <sup>2</sup> / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm <sup>2</sup> / 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
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
------------------------	-------------------------

### 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
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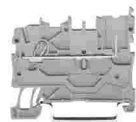
## Declarations of conformity and manufacturer's declarations

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)

## Counterpart



Item no.2020-1201

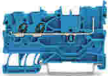




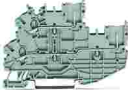
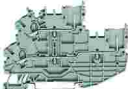





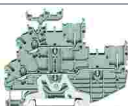
1-conductor/1-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

[www.wago.com/2020-1201](http://www.wago.com/2020-1201)

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

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	<b>Item no.2020-1304</b> 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	<a href="http://www.wago.com/2020-1304">www.wago.com/2020-1304</a>
	<b>Item no.2020-1207</b> 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	<a href="http://www.wago.com/2020-1207">www.wago.com/2020-1207</a>
	<b>Item no.2020-1301</b> 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	<a href="http://www.wago.com/2020-1301">www.wago.com/2020-1301</a>
	<b>Item no.2020-1204</b> 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	<a href="http://www.wago.com/2020-1204">www.wago.com/2020-1204</a>
	<b>Item no.2020-1307</b> 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	<a href="http://www.wago.com/2020-1307">www.wago.com/2020-1307</a>
	<b>Item no.2020-2201</b> 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	<a href="http://www.wago.com/2020-2201">www.wago.com/2020-2201</a>
	<b>Item no.2020-2202</b> 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	<a href="http://www.wago.com/2020-2202">www.wago.com/2020-2202</a>
	<b>Item no.2020-2203</b> 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	<a href="http://www.wago.com/2020-2203">www.wago.com/2020-2203</a>
	<b>Item no.2020-2204</b> 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	<a href="http://www.wago.com/2020-2204">www.wago.com/2020-2204</a>
	<b>Item no.2020-1401</b> 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	<a href="http://www.wago.com/2020-1401">www.wago.com/2020-1401</a>
	<b>Item no.2020-2207</b> 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	<a href="http://www.wago.com/2020-2207">www.wago.com/2020-2207</a>
	<b>Item no.2020-2208</b> 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	<a href="http://www.wago.com/2020-2208">www.wago.com/2020-2208</a>
	<b>Item no.2020-2217</b> 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	<a href="http://www.wago.com/2020-2217">www.wago.com/2020-2217</a>
	<b>Item no.2020-2209</b>	

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; 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](http://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](http://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](http://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](http://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](http://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](http://www.wago.com/2020-2234)

## Optional accessories

### 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](http://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](http://www.wago.com/210-647)

**Item no.: 210-719**

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

[www.wago.com/210-719](http://www.wago.com/210-719)

### Locking levers

#### Locking system

**Item no.: 2022-141**

Locking lever; gray

[www.wago.com/2022-141](http://www.wago.com/2022-141)

**Item no.: 2022-142**

Locking lever; orange

[www.wago.com/2022-142](http://www.wago.com/2022-142)

### Ferrule

#### Ferrule

**Item no.: 216-241**

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight

[www.wago.com/216-241](http://www.wago.com/216-241)

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

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crimped; acc. to DIN 46228, Part 4/09.90; white


	<b>Item no.: 216-242</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	<a href="http://www.wago.com/216-242">www.wago.com/216-242</a>
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	<b>Item no.: 216-243</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	<a href="http://www.wago.com/216-243">www.wago.com/216-243</a>
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**Marking accessories**


Marking strip

	<b>Item no.: 2009-110</b> Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a>
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	<b>Item no.: 210-831</b> Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-831">www.wago.com/210-831</a>
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	<b>Item no.: 210-833</b> Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-833">www.wago.com/210-833</a>
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	<b>Item no.: 210-834</b> Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-834">www.wago.com/210-834</a>
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	<b>Item no.: 210-832</b> Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-832">www.wago.com/210-832</a>
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Marker

	<b>Item no.: 2009-113</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white	<a href="http://www.wago.com/2009-113">www.wago.com/2009-113</a>
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	<b>Item no.: 793-3501</b> WMB marking card; as card; plain; snap-on type; white	<a href="http://www.wago.com/793-3501">www.wago.com/793-3501</a>
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**Strain relief**

Strain relief plate

	<b>Item no.: 734-327</b> Strain relief plate; for female and male connectors; 6 mm wide; 1 part; gray	<a href="http://www.wago.com/734-327">www.wago.com/734-327</a>
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**Protective warning marker**

Cover

	<b>Item no.: 2000-115</b> Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow	<a href="http://www.wago.com/2000-115">www.wago.com/2000-115</a>
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**Downloads**

**Documentation**

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





### Bid Text

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

Technical Section Technical explanations		pdf 2.2 MB	Download
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### CAD/CAE-Data

#### CAE data

WSCAD Universe 2020-102		URL	Download
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ZUKEN Portal 2020-102		URL	Download
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EPLAN Data Portal 2020-102		URL	Download
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#### CAD data

2D/3D Models 2020-102		URL	Download
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### Environmental Product Compliance

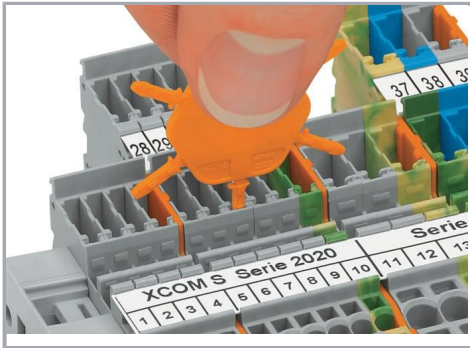
#### Compliance Search

Environmental Product Compliance 2020-102 1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 2-pole; 1,50 mm <sup>2</sup> ; gray		URL	Download
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### Installation Notes

#### Coding

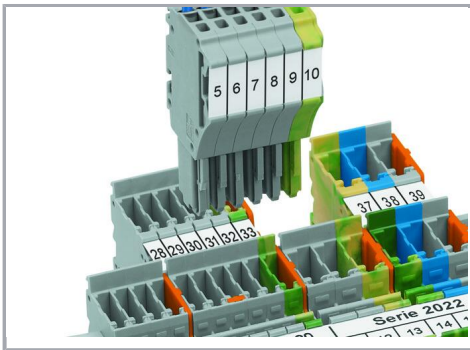
Subject to changes. Please also observe the further product documentation!



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

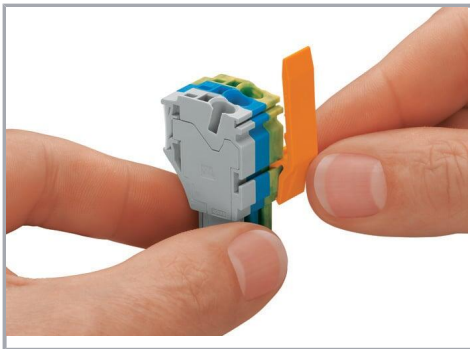


Coding a female plug: remove coding finger using a suitable tool.

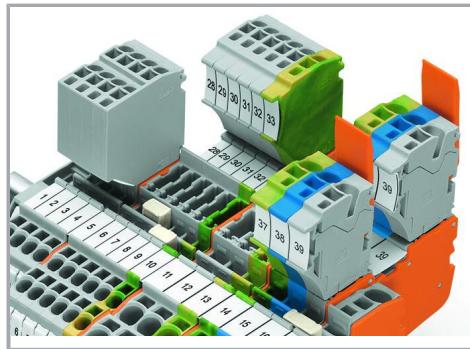


Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

### Locking system



Slide the locking lever into position.



Female plugs can be individually locked.

### Product family

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



**X-COM S-Mini**

[Show all products from the family](#)

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

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