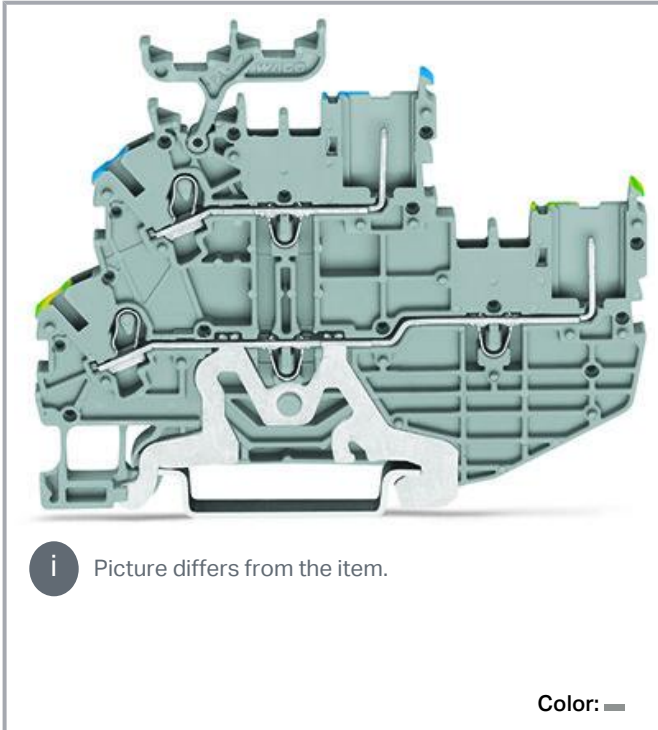


## Data sheet | Item number: 2020-2227

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 mm<sup>2</sup>; gray

[www.wago.com/2020-2227](http://www.wago.com/2020-2227)



### Data

#### Electrical data

#### Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
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

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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



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

### Power loss

Power loss, per pole (potential)	0.434 W
Rated current $I_N$ for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.002 $\Omega$

### Connection data

Connection points	2
Female plug slots	2
Total number of potentials	2
Number of levels	2
Number of jumper slots	4
Anzahl Brückeraufnahmen Rang	1

### 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

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



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
Wiring direction	Front-entry wiring

### Physical data

Width	3.5 mm / 0.138 inches
Height	80.1 mm / 3.154 inches
Depth from upper-edge of DIN-rail	51.3 mm / 2.02 inches

### Mechanical Data

Potential marking	PE/L
Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Side marking

### Material Data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.177 MJ
Weight	10.3 g

### Environmental requirements

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

### Commercial data

Product Group	18 (X-COM-System)
eCl@ss 10.0	27-14-11-41
eCl@ss 9.0	27-14-11-41
ETIM 8.0	EC000901
ETIM 7.0	EC000901

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

WAGO GmbH & Co. KG  
 Hansastr. 27  
 32423 Minden  
 Phone: +49571 887-0 | Fax: +49571 887-169  
 Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
 We are always happy to take your call at +49 (571) 887-44222.





PU (SPU)	50 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821049562
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
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71- 100670
	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	-	-

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

## Approvals for marine applications




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

## Counterpart

	<b>Item no.2020-102</b> 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	<a href="http://www.wago.com/2020-102">www.wago.com/2020-102</a>
	<b>Item no.2020-202</b> 2-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	<a href="http://www.wago.com/2020-202">www.wago.com/2020-202</a>

## Required accessories

## End plate








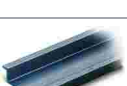
	End plate	
	<b>Item no.: 2020-2291</b> End and intermediate plate; 1 mm thick; gray	<a href="http://www.wago.com/2020-2291">www.wago.com/2020-2291</a>
	<b>Item no.: 2020-2292</b> End and intermediate plate; 1 mm thick; orange	<a href="http://www.wago.com/2020-2292">www.wago.com/2020-2292</a>

## Optional accessories

## Carrier rail


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

## Mounting accessories

	<b>Item no.: 210-197</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-197">www.wago.com/210-197</a>
	<b>Item no.: 210-198</b> Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	<a href="http://www.wago.com/210-198">www.wago.com/210-198</a>
	<b>Item no.: 210-113</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-113">www.wago.com/210-113</a>
	<b>Item no.: 210-118</b> Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-118">www.wago.com/210-118</a>
	<b>Item no.: 210-112</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored	<a href="http://www.wago.com/210-112">www.wago.com/210-112</a>
	<b>Item no.: 210-114</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-114">www.wago.com/210-114</a>
	<b>Item no.: 210-115</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored	<a href="http://www.wago.com/210-115">www.wago.com/210-115</a>
	<b>Item no.: 210-196</b> Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-196">www.wago.com/210-196</a>


## 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>
------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------




## Coding

## Coding

	<b>Item no.: 2020-100</b> Carrier with 6 coding pins; for coding of female plugs; for carrier terminal blocks; orange	<a href="http://www.wago.com/2020-100">www.wago.com/2020-100</a>
------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------




## Testing and measuring

## Testing accessories












	<b>Item no.: 2009-174</b> Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray	<a href="http://www.wago.com/2009-174">www.wago.com/2009-174</a>
	<b>Item no.: 2009-182</b> Testing tap; for max. 2.5 mm <sup>2</sup> ; tool-free connection for individual test wires 0.08 - 2.5 mm; gray	<a href="http://www.wago.com/2009-182">www.wago.com/2009-182</a>
	<b>Item no.: 859-500</b> WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm <sup>2</sup>	<a href="http://www.wago.com/859-500">www.wago.com/859-500</a>

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















## Ferrule

Ferrule		
	<b>Item no.: 216-241</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	<a href="http://www.wago.com/216-241">www.wago.com/216-241</a>
	<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>
	<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>

## Jumpers








Jumper		
	<b>Item no.: 210-123</b> Wire commoning chain; insulated; blue	<a href="http://www.wago.com/210-123">www.wago.com/210-123</a>
	<b>Item no.: 2000-408</b> Jumper; 8-way; insulated; light gray	<a href="http://www.wago.com/2000-408">www.wago.com/2000-408</a>
	<b>Item no.: 2000-407</b> Jumper; 7-way; insulated; light gray	<a href="http://www.wago.com/2000-407">www.wago.com/2000-407</a>
	<b>Item no.: 2000-409</b> Jumper; 9-way; insulated; light gray	<a href="http://www.wago.com/2000-409">www.wago.com/2000-409</a>
	<b>Item no.: 2000-408/000-006</b> Jumper; 8-way; insulated; blue	<a href="http://www.wago.com/2000-408/000-006">www.wago.com/2000-408/000-006</a>
	<b>Item no.: 2000-408/000-005</b> Jumper; 8-way; insulated; red	<a href="http://www.wago.com/2000-408/000-005">www.wago.com/2000-408/000-005</a>
	<b>Item no.: 2000-409/000-005</b> Jumper; 9-way; insulated; red	<a href="http://www.wago.com/2000-409/000-005">www.wago.com/2000-409/000-005</a>
	<b>Item no.: 2000-407/000-006</b> Jumper; 7-way; insulated; blue	<a href="http://www.wago.com/2000-407/000-006">www.wago.com/2000-407/000-006</a>
	<b>Item no.: 2000-410</b> Jumper; 10-way; insulated; light gray	<a href="http://www.wago.com/2000-410">www.wago.com/2000-410</a>
	<b>Item no.: 2000-410/000-006</b> Jumper; 10-way; insulated; blue	<a href="http://www.wago.com/2000-410/000-006">www.wago.com/2000-410/000-006</a>
		

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













	<p><b>Item no.: 2000-433/000-005</b>                  Jumper; from 1 to 3; insulated; red</p>	<p><a href="http://www.wago.com/2000-433/000-005">www.wago.com/2000-433/000-005</a></p>
	<p><b>Item no.: 2000-407/000-005</b>                  Jumper; 7-way; insulated; red</p>	<p><a href="http://www.wago.com/2000-407/000-005">www.wago.com/2000-407/000-005</a></p>
	<p><b>Item no.: 2000-433/000-006</b>                  Jumper; from 1 to 3; insulated; blue</p>	<p><a href="http://www.wago.com/2000-433/000-006">www.wago.com/2000-433/000-006</a></p>
	<p><b>Item no.: 2000-410/000-005</b>                  Jumper; 10-way; insulated; red</p>	<p><a href="http://www.wago.com/2000-410/000-005">www.wago.com/2000-410/000-005</a></p>
	<p><b>Item no.: 2000-435</b>                  Jumper; from 1 to 5; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-435">www.wago.com/2000-435</a></p>
	<p><b>Item no.: 2000-409/000-006</b>                  Jumper; 9-way; insulated; blue</p>	<p><a href="http://www.wago.com/2000-409/000-006">www.wago.com/2000-409/000-006</a></p>
	<p><b>Item no.: 2000-436</b>                  Jumper; from 1 to 6; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-436">www.wago.com/2000-436</a></p>
	<p><b>Item no.: 2000-433</b>                  Jumper; from 1 to 3; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-433">www.wago.com/2000-433</a></p>
	<p><b>Item no.: 2000-434</b>                  Jumper; from 1 to 4; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-434">www.wago.com/2000-434</a></p>
	<p><b>Item no.: 2000-402</b>                  Jumper; 2-way; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-402">www.wago.com/2000-402</a></p>
	<p><b>Item no.: 2000-402/000-006</b>                  Jumper; 2-way; insulated; blue</p>	<p><a href="http://www.wago.com/2000-402/000-006">www.wago.com/2000-402/000-006</a></p>
	<p><b>Item no.: 2000-403</b>                  Jumper; 3-way; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-403">www.wago.com/2000-403</a></p>
	<p><b>Item no.: 2000-402/000-005</b>                  Jumper; 2-way; insulated; red</p>	<p><a href="http://www.wago.com/2000-402/000-005">www.wago.com/2000-402/000-005</a></p>
	<p><b>Item no.: 2000-402/000-018</b>                  Jumper; 2-way; insulated; yellow-green</p>	<p><a href="http://www.wago.com/2000-402/000-018">www.wago.com/2000-402/000-018</a></p>
	<p><b>Item no.: 2000-404</b>                  Jumper; 4-way; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-404">www.wago.com/2000-404</a></p>

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



	<p><b>Item no.:</b> 2000-403/000-005                  Jumper; 3-way; insulated; red</p>	<a href="http://www.wago.com/2000-403/000-005">www.wago.com/2000-403/000-005</a>
	<p><b>Item no.:</b> 2000-404/000-006                  Jumper; 4-way; insulated; blue</p>	<a href="http://www.wago.com/2000-404/000-006">www.wago.com/2000-404/000-006</a>
	<p><b>Item no.:</b> 2000-403/000-006                  Jumper; 3-way; insulated; blue</p>	<a href="http://www.wago.com/2000-403/000-006">www.wago.com/2000-403/000-006</a>
	<p><b>Item no.:</b> 2000-404/000-005                  Jumper; 4-way; insulated; red</p>	<a href="http://www.wago.com/2000-404/000-005">www.wago.com/2000-404/000-005</a>
	<p><b>Item no.:</b> 2000-405                  Jumper; 5-way; insulated; light gray</p>	<a href="http://www.wago.com/2000-405">www.wago.com/2000-405</a>
	<p><b>Item no.:</b> 2000-405/011-000                  Star point jumper; 3-way; insulated; light gray</p>	<a href="http://www.wago.com/2000-405/011-000">www.wago.com/2000-405/011-000</a>
	<p><b>Item no.:</b> 2000-405/000-006                  Jumper; 5-way; insulated; blue</p>	<a href="http://www.wago.com/2000-405/000-006">www.wago.com/2000-405/000-006</a>
	<p><b>Item no.:</b> 2000-406/000-006                  Jumper; 6-way; insulated; blue</p>	<a href="http://www.wago.com/2000-406/000-006">www.wago.com/2000-406/000-006</a>
	<p><b>Item no.:</b> 2000-405/000-005                  Jumper; 5-way; insulated; red</p>	<a href="http://www.wago.com/2000-405/000-005">www.wago.com/2000-405/000-005</a>
	<p><b>Item no.:</b> 2000-406                  Jumper; 6-way; insulated; light gray</p>	<a href="http://www.wago.com/2000-406">www.wago.com/2000-406</a>
	<p><b>Item no.:</b> 2000-406/000-005                  Jumper; 6-way; insulated; red</p>	<a href="http://www.wago.com/2000-406/000-005">www.wago.com/2000-406/000-005</a>
	<p><b>Item no.:</b> 2000-406/020-000                  Delta jumper; insulated; light gray</p>	<a href="http://www.wago.com/2000-406/020-000">www.wago.com/2000-406/020-000</a>
	<p><b>Item no.:</b> 2000-437                  Jumper; from 1 to 7; insulated; light gray</p>	<a href="http://www.wago.com/2000-437">www.wago.com/2000-437</a>
	<p><b>Item no.:</b> 2000-438                  Jumper; from 1 to 8; insulated; light gray</p>	<a href="http://www.wago.com/2000-438">www.wago.com/2000-438</a>

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

	<b>Item no.: 2000-492</b> Vertical jumper; insulated; light gray	<a href="http://www.wago.com/2000-492">www.wago.com/2000-492</a>
	<b>Item no.: 2000-439</b> Jumper; from 1 to 9; insulated; light gray	<a href="http://www.wago.com/2000-439">www.wago.com/2000-439</a>
	<b>Item no.: 2000-440</b> Jumper; from 1 to 10; insulated; light gray	<a href="http://www.wago.com/2000-440">www.wago.com/2000-440</a>
	<b>Item no.: 210-103</b> Wire commoning chain; insulated; black	<a href="http://www.wago.com/210-103">www.wago.com/210-103</a>
<b>Tool</b>		
Operating tool		
	<b>Item no.: 210-648</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short	<a href="http://www.wago.com/210-648">www.wago.com/210-648</a>
	<b>Item no.: 210-647</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-647">www.wago.com/210-647</a>
	<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-719">www.wago.com/210-719</a>
<b>Marking accessories</b>		
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>
Marker carrier		
	<b>Item no.: 2000-121</b> Adaptor; gray	<a href="http://www.wago.com/2000-121">www.wago.com/2000-121</a>
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>
	<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>
<b>Push-in type wire jumper</b>		
Jumper		
	<b>Item no.: 2009-404</b> Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 110 mm long; gray	<a href="http://www.wago.com/2009-404">www.wago.com/2009-404</a>

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



**Item no.: 2009-402**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 60 mm long; gray

[www.wago.com/2009-402](http://www.wago.com/2009-402)



**Item no.: 2009-406**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; gray

[www.wago.com/2009-406](http://www.wago.com/2009-406)

## Downloads

### Documentation

#### Bid Text

2020-2227 X81 - Datei	2019 Feb 19	xml 4.3 kB	Download
--------------------------	-------------	---------------	----------

2020-2227 docx - Datei	2018 Aug 7	docx 15.6 kB	Download
---------------------------	------------	-----------------	----------

#### Additional Information

Technical Section Technical explanations		pdf 2.2 MB	Download
---------------------------------------------	--	---------------	----------

## CAD/CAE-Data

### CAD data

2D/3D Models 2020-2227		URL	Download
------------------------	--	-----	----------

### CAE data

EPLAN Data Portal 2020-2227		URL	Download
-----------------------------	--	-----	----------

ZUKEN Portal 2020-2227		URL	Download
------------------------	--	-----	----------

WSCAD Universe 2020-2227		URL	Download
--------------------------	--	-----	----------

## Environmental Product Compliance

### Compliance Search

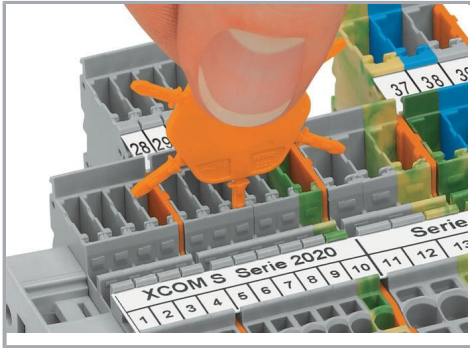
Environmental Product Compliance 2020-2227		URL	Download
--------------------------------------------	--	-----	----------

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

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

## Installation Notes

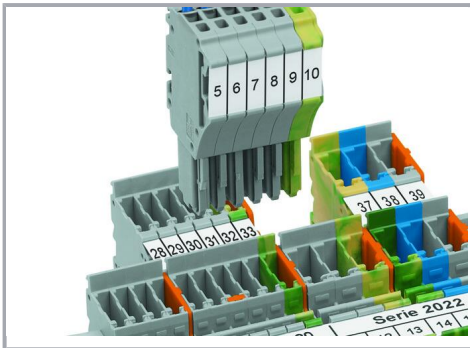
### Coding



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

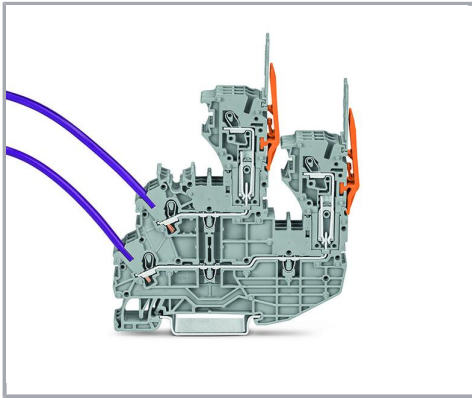


Coding a female plug: remove coding finger using a suitable tool.



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

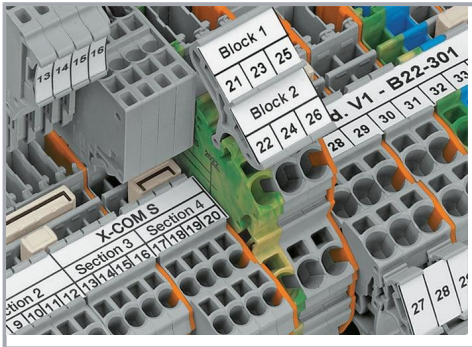
Subject to changes. Please also observe the further product documentation!



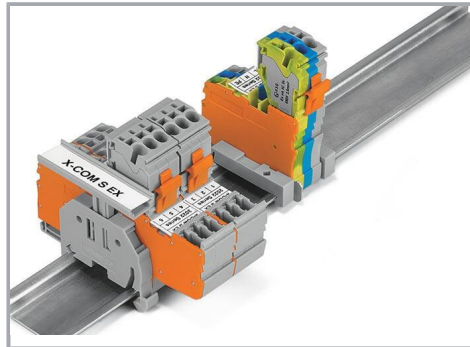
1-conductor female plug

Double-deck carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.

### Marking

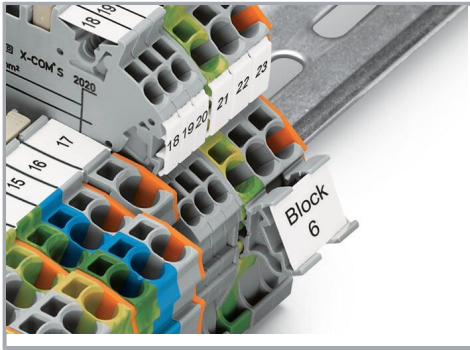


Clear marking via large marking area



Group marking with height-adjustable group marker carrier (2009-163)

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



Marking via marker carrier (2009-198)

## Product family

**X-COM S-Mini**

[Show all products from the family](#)

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