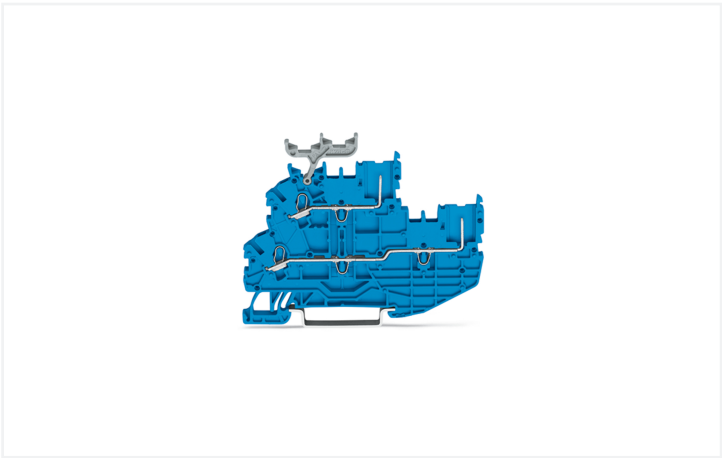
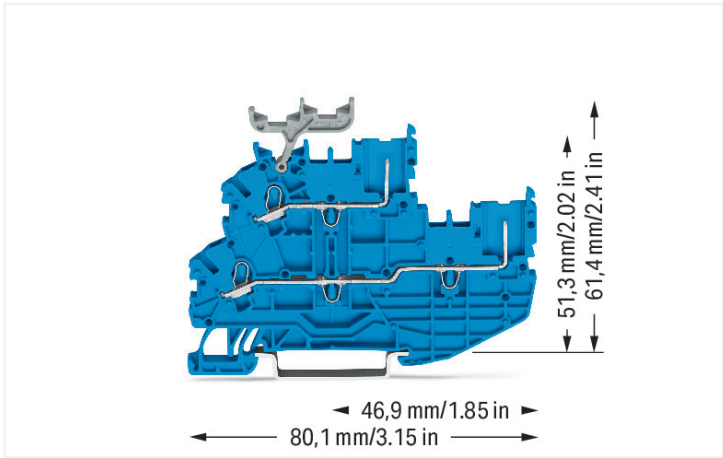


Data Sheet | Item Number: 2020-2234

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



<https://www.wago.com/2020-2234>



Color: ■ blue

1-conductor/1-pin double-deck carrier terminal block, 2020 Series, operating tool

Effortless electrical installations are guaranteed with 1-conductor/1-pin double-deck carrier terminal block (item number 2020-2234). Conductors should only be connected to 1-conductor/1-pin double-deck carrier terminal block if their strip length is between 9 and 11 mm . Pluggable rail-mount terminal blocks are hugely popular in switchgear and control systems, for example, in railroad technology. They combine the best of rail-mount terminal blocks and connectors to create the perfect solution. Variable wiring systems make pre-assembly easy, which saves both time and money in production, installation, operation, and maintenance. This product incorporates conductor terminals and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, boasting a key feature: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. 1-conductor/1-pin double-deck carrier terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 1.5 mm².

This pluggable rail-mount terminal block is operated with an operating tool.

Notes	
Safety Information	A separator plate (Item No. 209-191) or a 10 mm end stop (Item No. 249-117) must be placed at the end of a WAGO X-COM®S-SYSTEM terminal strip.

Electrical data							
Ratings per		IEC/EN 60947-7-1			Approvals per		UL 1059
Overvoltage category		III	III	II	Use group	B	C D
Pollution degree		3	2	2	Rated voltage	300 V	300 V 300 V
Nominal voltage		500 V	-	-	Rated current	15 A	15 A 15 A
Rated impulse withstand voltage		6 kV	-	-			
Rated current		13.5 A	-	-			



Approvals per		CSA 22.2 No 158		
Use group	B	C	D	
Rated voltage	300 V	300 V	-	
Rated current	10 A	10 A	-	

Power Loss	
Power loss, per pole (potential)	0.4338 W
Rated current I _N for power loss specification	13.5 A
Resistance value for specified, current-dependent power loss	0.00238 Ω

General information	
Wiring direction	Front-entry wiring

Connection Data	
Clamping units	2
Female plug slots	2
Total number of potentials	2
Number of levels	2
Number of jumper slots	4

Connection 1	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	1 mm²
Solid conductor	0.14 ... 1.5 mm² / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm² / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm² / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm² / 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
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	61.4 mm / 2.417 inches

Mechanical data	
Potential marking	N/N
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	blue
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.197 MJ
Weight	9.7 g



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

Commercial data	
Product Group	18 (X-COM-System)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821049593
Customs tariff number	85366990990

Product Classification	
UNSPSC	39121410
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 10.0	EC000897
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates											
General approvals		Declarations of conformity and manufacturer's declarations									
Approval	Standard	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									
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Approval	Standard	Certificate Name									
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-									
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-									

Approvals for marine applications		
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	24-0152298-PDA



Downloads			
Environmental Product Compliance			
Compliance Search			
Environmental Product Compliance 2020-2234			

Documentation			
Bid Text			
2020-2234	19.02.2019	xml 4.17 KB	
2020-2234	07.08.2018	docx 15.18 KB	

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 2020-2234	EPLAN Data Portal 2020-2234
	WSCAD Universe 2020-2234
	ZUKEN Portal 2020-2234

1 Compatible Products
1.1 System counterpart
1.1.1 Female connector/socket



Item No.: 2020-102 1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; gray	Item No.: 2020-202 2-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; gray
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1.2 Required Accessories	
1.2.1 End plate	
1.2.1.1 End plate	
	
Item No.: 2020-2291 End and intermediate plate; 1 mm thick; gray	Item No.: 2020-2292 End and intermediate plate; 1 mm thick; orange

1.3 Optional Accessories

1.3.1 Coding

1.3.1.1 Coding



Item No.: 2020-100

Carrier with 6 coding pins; for coding of female plugs; for carrier terminal blocks; orange

1.3.2 DIN-rail

1.3.2.1 Mounting accessories



Item No.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored



Item No.: 210-198

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; copper-colored



Item No.: 210-197

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; similar to EN 60715; silver-colored



Item No.: 210-114

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored



Item No.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored



Item No.: 210-115

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 18 mm; silver-colored



Item No.: 210-112

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 25 mm; silver-colored



Item No.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored

1.3.3 Ferrule

1.3.3.1 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



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



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

1.3.4 Jumper

1.3.4.1 Jumper



Item No.: 2000-406/020-000

Delta jumper; insulated; light gray



Item No.: 2000-410/000-006

Jumper; 10-way; insulated; blue



Item No.: 2000-410

Jumper; 10-way; insulated; light gray



Item No.: 2000-410/000-005

Jumper; 10-way; insulated; red



Item No.: 2000-402/000-006

Jumper; 2-way; insulated; blue



Item No.: 2000-402

Jumper; 2-way; insulated; light gray



Item No.: 2000-402/000-005

Jumper; 2-way; insulated; red



Item No.: 2000-402/000-018

Jumper; 2-way; insulated; yellow-green



Item No.: 2000-403/000-006

Jumper; 3-way; insulated; blue



Item No.: 2000-403

Jumper; 3-way; insulated; light gray



Item No.: 2000-403/000-005

Jumper; 3-way; insulated; red



Item No.: 2000-404/000-006

Jumper; 4-way; insulated; blue



Item No.: 2000-404

Jumper; 4-way; insulated; light gray



Item No.: 2000-404/000-005

Jumper; 4-way; insulated; red



Item No.: 2000-405/000-006

Jumper; 5-way; insulated; blue



Item No.: 2000-405

Jumper; 5-way; insulated; light gray



1.3.4.1 Jumper

 Item No.: 2000-405/000-005 Jumper; 5-way; insulated; red	 Item No.: 2000-406/000-006 Jumper; 6-way; insulated; blue	 Item No.: 2000-406 Jumper; 6-way; insulated; light gray	 Item No.: 2000-406/000-005 Jumper; 6-way; insulated; red
 Item No.: 2000-407/000-006 Jumper; 7-way; insulated; blue	 Item No.: 2000-407 Jumper; 7-way; insulated; light gray	 Item No.: 2000-407/000-005 Jumper; 7-way; insulated; red	 Item No.: 2000-408/000-006 Jumper; 8-way; insulated; blue
 Item No.: 2000-408 Jumper; 8-way; insulated; light gray	 Item No.: 2000-408/000-005 Jumper; 8-way; insulated; red	 Item No.: 2000-409/000-006 Jumper; 9-way; insulated; blue	 Item No.: 2000-409 Jumper; 9-way; insulated; light gray
 Item No.: 2000-409/000-005 Jumper; 9-way; insulated; red	 Item No.: 2000-440 Jumper; from 1 to 10; insulated; light gray	 Item No.: 2000-433/000-006 Jumper; from 1 to 3; insulated; blue	 Item No.: 2000-433 Jumper; from 1 to 3; insulated; light gray
 Item No.: 2000-433/000-005 Jumper; from 1 to 3; insulated; red	 Item No.: 2000-434 Jumper; from 1 to 4; insulated; light gray	 Item No.: 2000-435 Jumper; from 1 to 5; insulated; light gray	 Item No.: 2000-436 Jumper; from 1 to 6; insulated; light gray
 Item No.: 2000-437 Jumper; from 1 to 7; insulated; light gray	 Item No.: 2000-438 Jumper; from 1 to 8; insulated; light gray	 Item No.: 2000-439 Jumper; from 1 to 9; insulated; light gray	 Item No.: 2000-405/011-000 Star point jumper; 3-way; insulated; light gray
 Item No.: 2000-492 Vertical jumper; insulated; light gray	 Item No.: 210-103 Wire commoning chain; insulated; black	 Item No.: 210-123 Wire commoning chain; insulated; blue	

1.3.5 Marking

1.3.5.1 Marker

 Item No.: 793-3501 WMB marking card; as card; plain; snap-on type; white	 Item No.: 2009-113 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white
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1.3.5.2 Marking strip

 Item No.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white
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1.3.6 Protective warning marker

1.3.6.1 Cover

 Item No.: 2000-115 Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow
--

1.3.7 Push-in type wire jumper

1.3.7.1 Jumper



Item No.: 2009-404
Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; gray



Item No.: 2009-406
Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; gray



Item No.: 2009-402
Push-in type wire jumper; 0.75 mm²; insulated; 60 mm long; gray

1.3.8 Screwless end stop

1.3.8.1 Mounting accessories



Item No.: 249-117
Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item No.: 249-116
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.3.9 Test and measurement

1.3.9.1 Testing accessories



Item No.: 859-500
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm²

1.3.10 Tool

1.3.10.1 Operating tool



Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



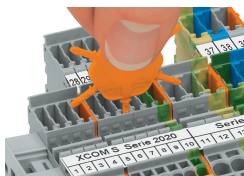
Item No.: 210-648
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

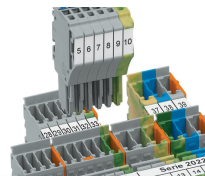
Coding



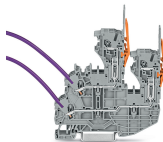
Insert coding pin into the corresponding slot and twist it off.



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

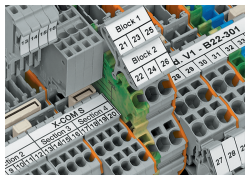


Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

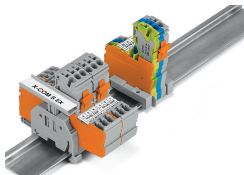


1-conductor female plug
Double-deck carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.

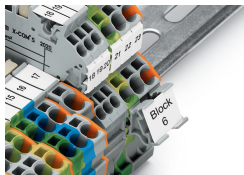
Marking



Clear marking via large marking area



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



Marking via marker carrier (Item No. 2009-198)