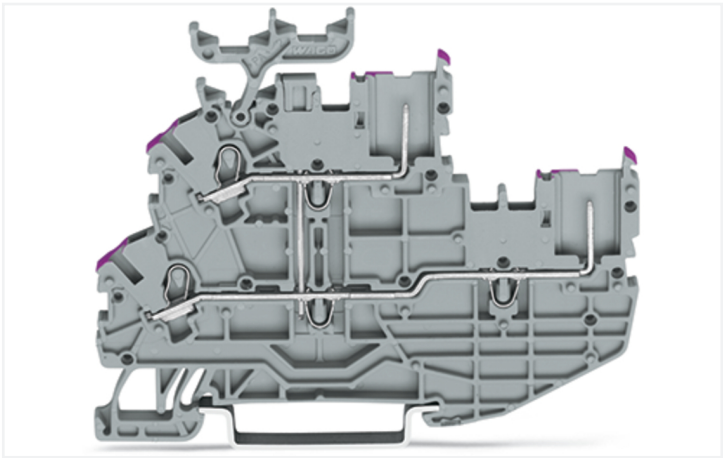


Data Sheet | Item Number: 2020-2208

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

<https://www.wago.com/2020-2208>



Color: ■ gray Similar to illustration

Double-deck terminal block, 2020 Series, gray

This double-deck terminal block (item number 2020-2208) provides hassle-free electrical installations. Pluggable rail-mount terminal blocks are mainly used in switchgear units and control systems (e.g., in railroad technology). They are essentially a combination of rail-mount terminal blocks and pluggable connectors. You can also pre-assemble installations thanks to the variable wiring system. This saves both time and money during manufacture, installation, operation, and maintenance. The double-deck terminal block also functions as a through terminal block. Rated current and voltage are important parameters when choosing a pluggable rail-mount terminal block, as they indicate how the product can be used. This product has a rated voltage of 500 V and a rated current of 13.5 A. Conductors should only be connected to this double-deck terminal block if their strip length is between 9 mm and 11 mm. Featuring conductor terminals along with Push-in CAGE CLAMP®, this product delivers reliable performance. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without the need for tools—all thanks to its pluggable design. This double-deck terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 1.5 mm². It comes with two levels and two clamping points for connecting a single potential. The gray housing is made of polyamide (PA66) for insulation. This pluggable rail-mount terminal block is operated with an operating tool. These pluggable rail-mount terminal blocks are mounted using DIN-35 rails.. The front-entry wiring allows you to connect copper conductors. The three jumper slots enable potential distribution to other clamping points.

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		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		500 V	-	-
Rated impulse withstand voltage		6 kV	-	-
Rated current		13.5 A	-	-
Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		300 V	300 V	300 V
Rated current		15 A	15 A	15 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 <sub>N</sub> for power loss specification		13.5 A		
Resistance value for specified, current-dependent power loss		0.00238 Ω		



Connection data		
Clamping units	2	
Female plug slots	2	
Total number of potentials	1	
Number of levels	2	
Number of jumper slots	3	
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	51.3 mm / 2.02 inches	

Mechanical data		
Potential marking	L	
Design	horizontal type	
Mounting type	DIN-35 rail	
Marking level	Side marking	

Material data		
Note (material data)	<a href="#">Information on material specifications can be found here</a>	
Color	gray	
Material group	I	
Insulation material (main housing)	Polyamide (PA66)	
Flammability class per UL94	V0	
Fire load	0.191 MJ	
Weight	8.8 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	4050821049531	
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 8.0	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	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7617	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CSA DEKRA Certification B.V.	C22.2	2516073	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-100670			
UL UL International Germany GmbH	UL 1059	E 45172			

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	24-0152298-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2



Downloads			
Environmental Product Compliance			
Compliance Search			
Environmental Product Compliance 2020-2208			

Documentation			
Bid Text			
2020-2208	19.02.2019	xml 4.27 KB	
2020-2208	07.08.2018	docx 15.36 KB	

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 2020-2208	EPLAN Data Portal 2020-2208
	WSCAD Universe 2020-2208
	ZUKEN Portal 2020-2208

1 Compatible Products	
1.1 System counterpart	
1.1.1 Female connector/socket	
<a href="#">Item No.: 2020-102</a> 1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; gray	<a href="#">Item No.: 2020-202</a> 2-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; gray

1.2 Required Accessories	
1.2.1 End plate	
1.2.1.1 End plate	
<a href="#">Item No.: 2020-2291</a> End and intermediate plate; 1 mm thick; gray	<a href="#">Item No.: 2020-2292</a> 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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.: 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

1.3.5.2 Marker carrier



[Item No.: 2000-121](#)  
Adaptor; gray

1.3.5.3 Marking strip



[Item No.: 2009-110](#)  
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white



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 mm<sup>2</sup>; insulated; 110 mm long; gray



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



**Item No.: 2009-402**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; 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.: 2009-174**  
Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray



**Item No.: 2009-182**  
Testing tap; for max. 2.5 mm<sup>2</sup>; tool-free connection for individual test wires 0.08 - 2.5 mm; gray



**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 0.5mm<sup>2</sup>

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



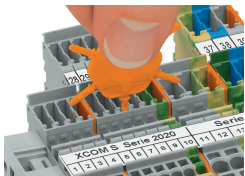
**Item No.: 210-648**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



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

Installation Notes

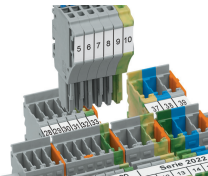
Coding



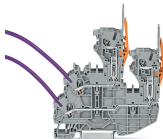
Insert coding pin into the corresponding slot and twist it off.



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

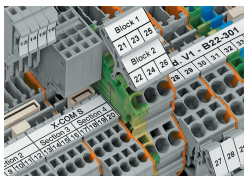


Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

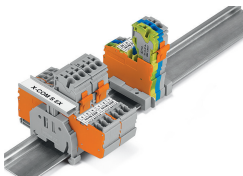


1-conductor female plug  
Double-deck carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.

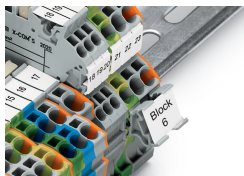
Marking



Clear marking via large marking area



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



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