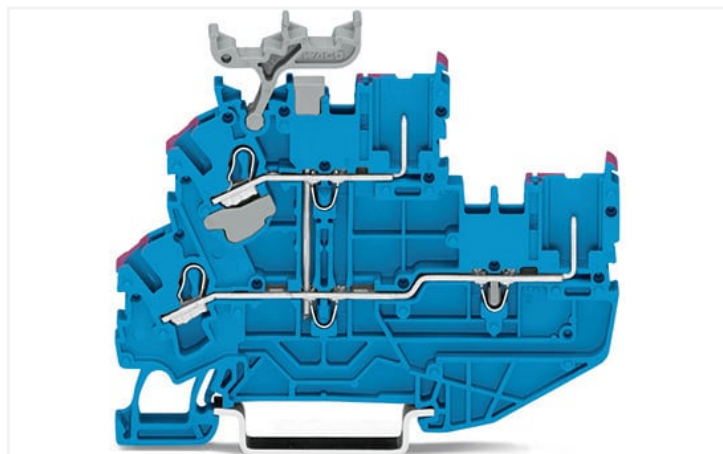


Data Sheet | Item Number: 2022-2209

2-conductor/2-pin, double-deck carrier terminal block; 2-conductor/2-pin through terminal block; 2.5 mm²; N; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 2,50 mm²; blue

<https://www.wago.com/2022-2209>



Color: ■ blue

Similar to illustration

Electrical data

Ratings per	IEC/EN 60947-7-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	690 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	24 A	-	-
Current at conductor cross-section (max.) mm ²	28 A	-	-

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	20 A	20 A	-

Approvals per	CSA 22.2 No 158		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	20 A	-

Power Loss	
Power loss, per pole (potential)	0.7661 W
Rated current I _N for specified power loss	24 A
Resistance value for specified, current-dependent power loss	0.00133 Ω

Connection data

Connection points	2
Female plug slots	2
Total number of potentials	1
Number of levels	2
Number of jumper slots	3
Number of jumper slots (rank)	2

Connection 1	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	2.5 mm ²
Solid conductor	0.25 ... 4 mm ² / 22 ... 12 AWG
Solid conductor; push-in termination	0.75 ... 4 mm ² / 18 ... 12 AWG
Fine-stranded conductor	0.25 ... 4 mm ² / 22 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm ² / 22 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1 ... 2.5 mm ² / 18 ... 14 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	10 ... 12 mm / 0.39 ... 0.47 inches



Connection 1	
Wiring direction	Front-entry wiring

Physical data	
Width	5.2 mm / 0.205 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	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	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.255 MJ
Weight	12.3 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	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454916527
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption



Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2 No. 158	2437422
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

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	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	38586/B0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	91/20112 (E9)

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 2022-2209



Documentation

Additional Information
Technical Section

pdf
2240.62 KB



Bid Text			
2022-2209	19.02.2019	xml 4.15 KB	↓
2022-2209	14.05.2019	docx 15.65 KB	↓





CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 2022-2209	EPLAN Data Portal 2022-2209
	
	WSCAD Universe 2022-2209
	
	ZUKEN Portal 2022-2209
	

1 Compatible Products
1.1 System counterpart
1.1.1 Female connector/socket



[Item No.: 2022-101](#)
1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin spacing 5.2 mm; 1-pole; 4,00 mm²; gray

1.2 Required Accessories
1.2.1 End plate
1.2.1.1 End plate



[Item No.: 2022-2291](#)
End and intermediate plate; 1 mm thick; gray



[Item No.: 2022-2292](#)
End and intermediate plate; 1 mm thick; orange

1.3 Optional Accessories
1.3.1 Coding
1.3.1.1 Coding



[Item No.: 2022-100](#)
Carrier with 6 coding pins; for coding of female plugs; 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.: 210-508

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; galvanized; similar to EN 60715; silver-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.: 210-506

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; galvanized; 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.: 210-504

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; galvanized; according to EN 60715; 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



Item No.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; galvanized; 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.: 216-262

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



Item No.: 216-263

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-264

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-284

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-246

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-266

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-286

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

1.3.4 Insulation stop

1.3.4.1 Insulation stop



Item No.: 2002-171

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray



Item No.: 2002-172

Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

1.3.5 Jumper

1.3.5.1 Jumper

Item No.: [2002-400](#)

Continuous jumper; 2-way; insulated; light gray

Item No.: [2002-423/000-006](#)

Continuous jumper; from 1 to 3; insulated; blue

Item No.: [2002-423](#)

Continuous jumper; from 1 to 3; insulated; light gray

Item No.: [2002-423/000-005](#)

Continuous jumper; from 1 to 3; insulated; red

Item No.: [2002-424/000-006](#)

Continuous jumper; from 1 to 4; insulated; blue

Item No.: [2002-424](#)

Continuous jumper; from 1 to 4; insulated; light gray

Item No.: [2002-424/000-005](#)

Continuous jumper; from 1 to 4; insulated; red

Item No.: [2002-406/020-000](#)

Delta jumper; insulated; light gray

Item No.: [2002-410/000-006](#)

Jumper; 10-way; insulated; blue

Item No.: [2002-410](#)

Jumper; 10-way; insulated; light gray

Item No.: [2002-410/000-005](#)

Jumper; 10-way; insulated; red

Item No.: [2002-402/000-006](#)

Jumper; 2-way; insulated; blue

Item No.: [2002-402](#)

Jumper; 2-way; insulated; light gray

Item No.: [2002-402/000-005](#)

Jumper; 2-way; insulated; red

Item No.: [2002-403/000-006](#)

Jumper; 3-way; insulated; blue

Item No.: [2002-403](#)

Jumper; 3-way; insulated; light gray

Item No.: [2002-403/000-005](#)

Jumper; 3-way; insulated; red

Item No.: [2002-404/000-006](#)

Jumper; 4-way; insulated; blue

Item No.: [2002-404](#)

Jumper; 4-way; insulated; light gray

Item No.: [2002-404/000-005](#)

Jumper; 4-way; insulated; red

Item No.: [2002-405/000-006](#)

Jumper; 5-way; insulated; blue

Item No.: [2002-405](#)

Jumper; 5-way; insulated; light gray

Item No.: [2002-405/000-005](#)

Jumper; 5-way; insulated; red

Item No.: [2002-406/000-006](#)

Jumper; 6-way; insulated; blue

Item No.: [2002-406](#)

Jumper; 6-way; insulated; light gray

Item No.: [2002-406/000-005](#)

Jumper; 6-way; insulated; red

Item No.: [2002-407/000-006](#)

Jumper; 7-way; insulated; blue

Item No.: [2002-407](#)

Jumper; 7-way; insulated; light gray

Item No.: [2002-407/000-005](#)

Jumper; 7-way; insulated; red

Item No.: [2002-408/000-006](#)

Jumper; 8-way; insulated; blue

Item No.: [2002-408](#)

Jumper; 8-way; insulated; light gray

Item No.: [2002-408/000-005](#)

Jumper; 8-way; insulated; red

Item No.: [2002-409/000-006](#)

Jumper; 9-way; insulated; blue

Item No.: [2002-409](#)

Jumper; 9-way; insulated; light gray

Item No.: [2002-409/000-005](#)

Jumper; 9-way; insulated; red

Item No.: [2002-440](#)

Jumper; from 1 to 10; insulated; light gray

Item No.: [2002-433](#)

Jumper; from 1 to 3; insulated; light gray

Item No.: [2002-434](#)

Jumper; from 1 to 4; insulated; light gray

Item No.: [2002-435](#)

Jumper; from 1 to 5; insulated; light gray

Item No.: [2002-436](#)

Jumper; from 1 to 6; insulated; light gray

Item No.: [2002-437](#)

Jumper; from 1 to 7; insulated; light gray

Item No.: [2002-438](#)

Jumper; from 1 to 8; insulated; light gray

Item No.: [2002-439](#)

Jumper; from 1 to 9; insulated; light gray

Item No.: [2002-480](#)

Staggered jumper; 10-way; insulated; light gray

Item No.: [2002-481](#)

Staggered jumper; 11-way; insulated; light gray

Item No.: [2002-482](#)

Staggered jumper; 12-way; insulated; light gray

Item No.: [2002-473/011-000](#)

Staggered jumper; 2-way; from 1 to 3; insulated; light gray

Item No.: [2002-472](#)

Staggered jumper; 2-way; insulated; light gray

Item No.: [2002-473](#)

Staggered jumper; 3-way; insulated; light gray

Item No.: [2002-475/011-000](#)

Staggered jumper; 3-way; insulated; light gray

Item No.: [2002-474](#)

Staggered jumper; 4-way; insulated; light gray

Item No.: [2002-475](#)

Staggered jumper; 5-way; insulated; light gray

Item No.: [2002-476](#)

Staggered jumper; 6-way; insulated; light gray

Item No.: [2002-477](#)

Staggered jumper; 7-way; insulated; light gray

Item No.: [2002-478](#)

Staggered jumper; 8-way; insulated; light gray

Item No.: [2002-479](#)

Staggered jumper; 9-way; insulated; light gray



1.3.5.1 Jumper



[Item No.: 2002-477/011-000](#)
Staggered jumper; insulated; light gray



[Item No.: 2002-479/011-000](#)
Staggered jumper; insulated; light gray



[Item No.: 2002-481/011-000](#)
Staggered jumper; insulated; light gray



[Item No.: 2002-405/011-000](#)
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

1.3.6 Marking

1.3.6.1 Group marker carrier



[Item No.: 2009-191](#)
Group marker carrier; gray



[Item No.: 2009-192](#)
Group marker carrier; gray



[Item No.: 2009-193](#)
Group marker carrier; gray

1.3.6.2 Marker



[Item No.: 2009-145](#)
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



[Item No.: 248-501](#)
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



[Item No.: 793-5501](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



[Item No.: 2009-115](#)
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.3.6.3 Marker carrier



[Item No.: 2002-121](#)
Adaptor; gray



[Item No.: 2002-161](#)
Adaptor; gray



[Item No.: 2009-198](#)
Adaptor; gray

1.3.6.4 Marking strip



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

1.3.7 Protective warning marker

1.3.7.1 Cover



[Item No.: 2002-115](#)
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.3.8 Push-in type wire jumper

1.3.8.1 Jumper



Item No.: 2009-414
Push-in type wire jumper; 1.5 mm²; insulated; 110 mm long; black



Item No.: 2009-414/000-005
Push-in type wire jumper; 1.5 mm²; insulated; 110 mm long; black



Item No.: 2009-416
Push-in type wire jumper; 1.5 mm²; insulated; 250 mm long; black



Item No.: 2009-414/000-006
Push-in type wire jumper; insulated; 110 mm long; black



Item No.: 2009-412
Push-in type wire jumper; insulated; 60 mm long; black

1.3.9 Screwless end stop

1.3.9.1 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

1.3.10 Test and measurement

1.3.10.1 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 mm²; 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 0.5mm²

1.3.11 Tool

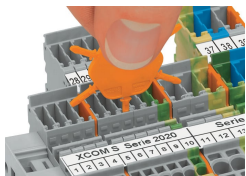
1.3.11.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

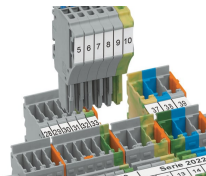
Coding



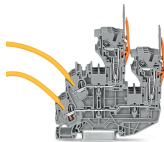
Insert coding pin into the corresponding slot and twist it off.



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

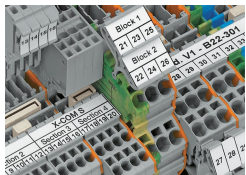


Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

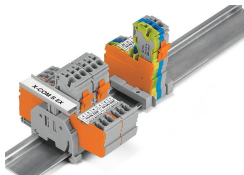


1-conductor female plug
Double-deck carrier terminal blocks can be commoned via 2002 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.

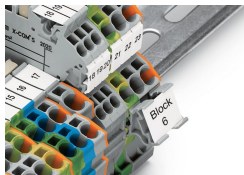
Marking



Clear marking via large marking area



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



Marking via marker carrier (2009-198)