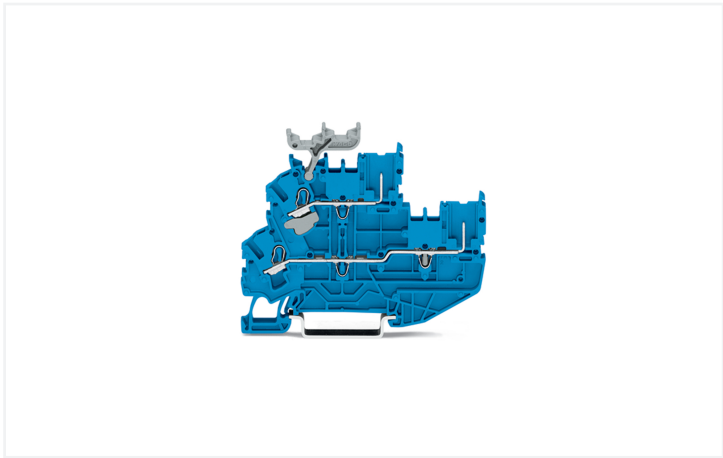


Data Sheet | Item Number: 2022-2204/999-953

1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; 2.5 mm²; N/N; without marker carrier; suitable for Ex nA applications; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 2,50 mm²; blue

<https://www.wago.com/2022-2204/999-953>



Color: ■ blue

Similar to illustration

1-conductor/1-pin double-deck carrier terminal block, 2022 Series, Push-in CAGE CLAMP®

Enjoy error-free electrical installations with 1-conductor/1-pin double-deck carrier terminal block (item number 2022-2204/999-953). Ensure that the strip lengths are between 10 and 12 mm when connecting conductors to 1-conductor/1-pin double-deck carrier terminal block. 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. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for any type of conductor. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. Depending on the conductor type, 1-conductor/1-pin double-deck carrier terminal block is suitable for conductor cross sections ranging from 0.25 mm² to 4 mm².

This pluggable rail-mount terminal block is operated with an operating tool. This product is designed for specific Ex applications (please refer to the product datasheet).

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	
		III	III	II	UL 1059	
Overvoltage category		III	III	II	Use group	B C D
Pollution degree		3	2	2	Rated voltage	600 V 600 V -
Nominal voltage		-	-	-	Rated current	20 A 20 A -
Rated impulse withstand voltage		-	-	-		
Rated current		-	-	-		



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)	0.532 W
Rated current I _N for power loss specification	20 A
Resistance value for specified, current-dependent power loss	0.00133 Ω

Ex information	
Rated voltage EN (Ex e II)	630 V

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

Connection 1	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	2.5 mm²
Solid conductor	0.25 ... 4 mm² / 22 ... 12 AWG
Solid conductor; push-in termination	0.75 ... 4 mm² / 18 ... 12 AWG
Fine-stranded conductor	0.25 ... 4 mm² / 22 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm² / 22 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1 ... 2.5 mm² / 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
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/N
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	0.244 MJ
Weight	11.5 g

Environmental requirements

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

Environmental Testing

Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

Commercial data

PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143299565
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	Approval	Standard	Certificate Name
CSA CSA Group	C22.2 No. 158	2437422	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
DEKRA DEKRA Certification B.V.	EN 60947	71-145809	Railway WAGO GmbH & Co. KG	-	Z00004394.000
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-116567	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UL Underwriters Laboratories Inc.	UL 1059	E45172			

Approvals for hazardous areas

  		
Approval	Standard	Certificate Name
ATEX Physikalisch Technische Bundesanstalt	EN IEC 60079-0	PTB 13 ATEX 1004 U (II 3 G Ex ec II C Gc)
CCC CNEX	GB/T 3836.3	2020312313000255 (Ex ec IIC Gc)
IECEx Physikalisch Technische Bundesanstalt	IEC 60079-0	IECEx PTB 13.0004U (Ex ec IIC Gc)

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2022-2204/999-953	



CAD/CAE-Data				
CAD data				
2D/3D Models				
2022-2204/999-953				
				
1 Compatible Products				
1.1 System counterpart				
1.1.1 Female connector/socket				
				
Item No.: 2022-102/999-953 1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin spacing 5.2 mm; 2-pole; Centered locking levers; 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; unslotted; similar to EN 60715; silver-colored Item No.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored Item No.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; 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; slotted; similar to EN 60715; silver-colored				
   				
Item No.: 210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; 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; unslotted; similar to EN 60715; silver-colored Item No.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored Item No.: 210-115 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				

1.3.2.1 Mounting accessories



Item No.: 210-112

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



Item No.: 210-504

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



Item No.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; 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.: 2002-413

Continuous jumper; 3-way; insulated; light gray



Item No.: 2002-415

Continuous jumper; 5-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



1.3.5.1 Jumper

 <u>Item No.: 2002-410/000-005</u> Jumper; 10-way; insulated; red	 <u>Item No.: 2002-402/000-006</u> Jumper; 2-way; insulated; blue	 <u>Item No.: 2002-402</u> Jumper; 2-way; insulated; light gray	 <u>Item No.: 2002-402/000-005</u> Jumper; 2-way; insulated; red
 <u>Item No.: 2002-403/000-006</u> Jumper; 3-way; insulated; blue	 <u>Item No.: 2002-403</u> Jumper; 3-way; insulated; light gray	 <u>Item No.: 2002-403/000-005</u> Jumper; 3-way; insulated; red	 <u>Item No.: 2002-404/000-006</u> Jumper; 4-way; insulated; blue
 <u>Item No.: 2002-404</u> Jumper; 4-way; insulated; light gray	 <u>Item No.: 2002-404/000-005</u> Jumper; 4-way; insulated; red	 <u>Item No.: 2002-405/000-006</u> Jumper; 5-way; insulated; blue	 <u>Item No.: 2002-405</u> Jumper; 5-way; insulated; light gray
 <u>Item No.: 2002-405/000-005</u> Jumper; 5-way; insulated; red	 <u>Item No.: 2002-406/000-006</u> Jumper; 6-way; insulated; blue	 <u>Item No.: 2002-406</u> Jumper; 6-way; insulated; light gray	 <u>Item No.: 2002-406/000-005</u> Jumper; 6-way; insulated; red
 <u>Item No.: 2002-407/000-006</u> Jumper; 7-way; insulated; blue	 <u>Item No.: 2002-407</u> Jumper; 7-way; insulated; light gray	 <u>Item No.: 2002-407/000-005</u> Jumper; 7-way; insulated; red	 <u>Item No.: 2002-408/000-006</u> Jumper; 8-way; insulated; blue
 <u>Item No.: 2002-408</u> Jumper; 8-way; insulated; light gray	 <u>Item No.: 2002-408/000-005</u> Jumper; 8-way; insulated; red	 <u>Item No.: 2002-409/000-006</u> Jumper; 9-way; insulated; blue	 <u>Item No.: 2002-409</u> Jumper; 9-way; insulated; light gray
 <u>Item No.: 2002-409/000-005</u> Jumper; 9-way; insulated; red	 <u>Item No.: 2002-440</u> Jumper; from 1 to 10; insulated; light gray	 <u>Item No.: 2002-433</u> Jumper; from 1 to 3; insulated; light gray	 <u>Item No.: 2002-434</u> Jumper; from 1 to 4; insulated; light gray
 <u>Item No.: 2002-435</u> Jumper; from 1 to 5; insulated; light gray	 <u>Item No.: 2002-436</u> Jumper; from 1 to 6; insulated; light gray	 <u>Item No.: 2002-437</u> Jumper; from 1 to 7; insulated; light gray	 <u>Item No.: 2002-438</u> Jumper; from 1 to 8; insulated; light gray
 <u>Item No.: 2002-439</u> Jumper; from 1 to 9; insulated; light gray	 <u>Item No.: 2002-480</u> Staggered jumper; 10-way; insulated; light gray	 <u>Item No.: 2002-481</u> Staggered jumper; 11-way; insulated; light gray	 <u>Item No.: 2002-482</u> Staggered jumper; 12-way; insulated; light gray
 <u>Item No.: 2002-473/011-000</u> Staggered jumper; 2-way; from 1 to 3; insulated; light gray	 <u>Item No.: 2002-472</u> Staggered jumper; 2-way; insulated; light gray	 <u>Item No.: 2002-473</u> Staggered jumper; 3-way; insulated; light gray	 <u>Item No.: 2002-475/011-000</u> Staggered jumper; 3-way; insulated; light gray
 <u>Item No.: 2002-474</u> Staggered jumper; 4-way; insulated; light gray	 <u>Item No.: 2002-475</u> Staggered jumper; 5-way; insulated; light gray	 <u>Item No.: 2002-476</u> Staggered jumper; 6-way; insulated; light gray	 <u>Item No.: 2002-477</u> Staggered jumper; 7-way; insulated; light gray
 <u>Item No.: 2002-478</u> Staggered jumper; 8-way; insulated; light gray	 <u>Item No.: 2002-479</u> Staggered jumper; 9-way; insulated; light gray	 <u>Item No.: 2002-477/011-000</u> Staggered jumper; insulated; light gray	 <u>Item No.: 2002-479/011-000</u> Staggered jumper; insulated; light gray
 <u>Item No.: 2002-481/011-000</u> Staggered jumper; insulated; light gray	 <u>Item No.: 2002-405/011-000</u> Star point jumper; 3-way; insulated; light gray	 <u>Item No.: 2002-492</u> Vertical jumper; insulated; light gray	 <u>Item No.: 2002-492/000-012</u> Vertical jumper; insulated; orange
 <u>Item No.: 210-103</u> Wire commoning chain; insulated; black	 <u>Item No.: 210-123</u> 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

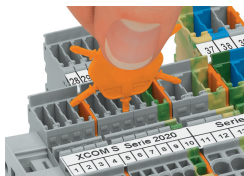
1.3.11.1 Operating tool



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

Installation Notes

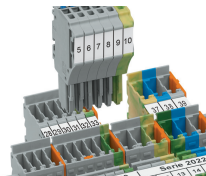
Coding



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

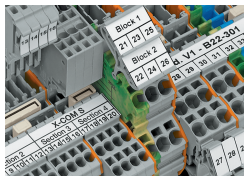


Coding a female plug: remove coding finger using a suitable tool.

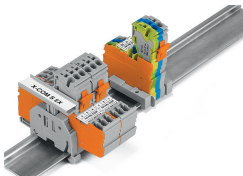


Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

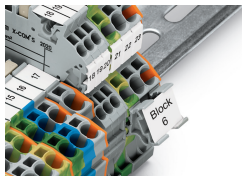
Marking



Clear marking via large marking area



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



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