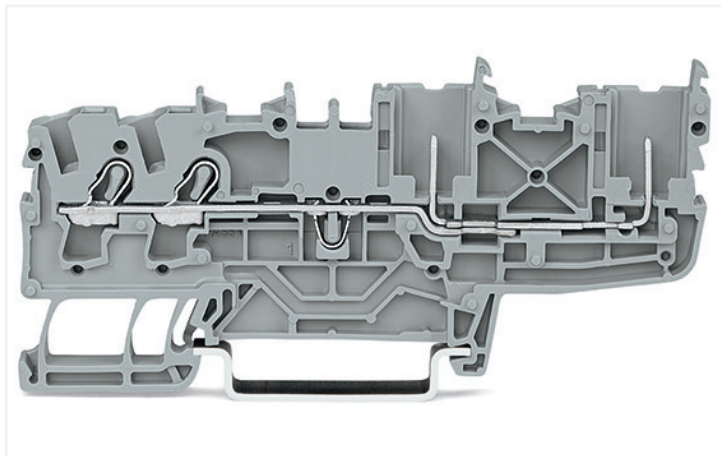


Data Sheet | Item Number: 2022-1404/999-953

2-conductor/2-pin carrier terminal block; 2.5 mm²; 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/2022-1404/999-953>



Color: ■ blue

Similar to illustration

Electrical data

Ratings per	IEC/EN 60947-7-1		
Overtoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	-	-
Rated surge voltage	-	-	-
Rated current	-	-	-

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	-

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

Power loss

Power loss, per pole (potential)	0.532 W
Rated current I_N for specified power loss	20 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	1

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

Connection 1

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	86.2 mm / 3.394 inches
Depth from upper-edge of DIN-rail	36.4 mm / 1.433 inches

Mechanical data

Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Center/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	0.187 MJ
Weight	9.2 g

Environmental requirements

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

Commercial data

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	CN
GTIN	4050821644811
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR CCA NL-7864
CCC CNEX	GB/T 3836.3	2020312313000255 (Ex ec IIC Gc)
CSA DEKRA Certification B.V.	C22.2 No. 158	2437422
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-116567
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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)
EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	RU C-DE.AM02. B.00127/19 (Ex nA IIC Gc U)
IECEx Physikalisch Technische Bundesanstalt	IEC 60079-0	IECEx PTB 13.0004U (Ex ec IIC Gc)

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
2022-1404/999-953



Documentation

Additional Information		
Technical Section	pdf 2142.18 KB	↓

Bid Text			
2022-1404/999-953	19.02.2019	xml 4.00 KB	↓
2022-1404/999-953	14.05.2019	docx 15.44 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 2022-1404/999-953	↓

CAE data	
EPLAN Data Portal 2022-1404/999-953	↓
WSCAD Universe 2022-1404/999-953	↓
ZUKEN Portal 2022-1404/999-953	↓

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.: 2022-1491
 End and intermediate plate; 1 mm thick; gray

Item No.: 2022-1492
 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.: 210-197

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



Item No.: 210-114

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



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.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; 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.: 2022-400 Continuous jumper; 2-way; insulated; light gray	 Item No.: 2022-423/000-006 Continuous jumper; from 1 to 3; insulated; blue	 Item No.: 2022-423 Continuous jumper; from 1 to 3; insulated; light gray	 Item No.: 2022-423/000-005 Continuous jumper; from 1 to 3; insulated; red
 Item No.: 2022-424/000-006 Continuous jumper; from 1 to 4; insulated; blue	 Item No.: 2022-424 Continuous jumper; from 1 to 4; insulated; light gray	 Item No.: 2022-424/000-005 Continuous jumper; from 1 to 4; insulated; red	 Item No.: 2022-406/020-000 Delta jumper; insulated; light gray
 Item No.: 2022-410/000-006 Jumper; 10-way; insulated; blue	 Item No.: 2022-410 Jumper; 10-way; insulated; light gray	 Item No.: 2022-410/000-005 Jumper; 10-way; insulated; red	 Item No.: 2022-402/000-006 Jumper; 2-way; insulated; blue
 Item No.: 2022-402 Jumper; 2-way; insulated; light gray	 Item No.: 2022-402/000-005 Jumper; 2-way; insulated; red	 Item No.: 2022-403/000-006 Jumper; 3-way; insulated; blue	 Item No.: 2022-403 Jumper; 3-way; insulated; light gray
 Item No.: 2022-403/000-005 Jumper; 3-way; insulated; red	 Item No.: 2022-404/000-006 Jumper; 4-way; insulated; blue	 Item No.: 2022-404 Jumper; 4-way; insulated; light gray	 Item No.: 2022-404/000-005 Jumper; 4-way; insulated; red
 Item No.: 2022-405/000-006 Jumper; 5-way; insulated; blue	 Item No.: 2022-405 Jumper; 5-way; insulated; light gray	 Item No.: 2022-405/000-005 Jumper; 5-way; insulated; red	 Item No.: 2022-406/000-006 Jumper; 6-way; insulated; blue
 Item No.: 2022-406 Jumper; 6-way; insulated; light gray	 Item No.: 2022-406/000-005 Jumper; 6-way; insulated; red	 Item No.: 2022-407/000-006 Jumper; 7-way; insulated; blue	 Item No.: 2022-407 Jumper; 7-way; insulated; light gray
 Item No.: 2022-407/000-005 Jumper; 7-way; insulated; red	 Item No.: 2022-408/000-006 Jumper; 8-way; insulated; blue	 Item No.: 2022-408 Jumper; 8-way; insulated; light gray	 Item No.: 2022-408/000-005 Jumper; 8-way; insulated; red
 Item No.: 2022-409/000-006 Jumper; 9-way; insulated; blue	 Item No.: 2022-409 Jumper; 9-way; insulated; light gray	 Item No.: 2022-409/000-005 Jumper; 9-way; insulated; red	 Item No.: 2022-440 Jumper; from 1 to 10; insulated; light gray
 Item No.: 2022-433 Jumper; from 1 to 3; insulated; light gray	 Item No.: 2022-434 Jumper; from 1 to 4; insulated; light gray	 Item No.: 2022-435 Jumper; from 1 to 5; insulated; light gray	 Item No.: 2022-436 Jumper; from 1 to 6; insulated; light gray
 Item No.: 2022-437 Jumper; from 1 to 7; insulated; light gray	 Item No.: 2022-438 Jumper; from 1 to 8; insulated; light gray	 Item No.: 2022-439 Jumper; from 1 to 9; insulated; light gray	 Item No.: 2022-480 Staggered jumper; 10-way; insulated; light gray
 Item No.: 2022-481 Staggered jumper; 11-way; insulated; light gray	 Item No.: 2022-482 Staggered jumper; 12-way; insulated; light gray	 Item No.: 2022-473/011-000 Staggered jumper; 2-way; from 1 to 3; insulated; light gray	 Item No.: 2022-472 Staggered jumper; 2-way; insulated; light gray
 Item No.: 2022-473 Staggered jumper; 3-way; insulated; light gray	 Item No.: 2022-475/011-000 Staggered jumper; 3-way; insulated; light gray	 Item No.: 2022-474 Staggered jumper; 4-way; insulated; light gray	 Item No.: 2022-475 Staggered jumper; 5-way; insulated; light gray
 Item No.: 2022-476 Staggered jumper; 6-way; insulated; light gray	 Item No.: 2022-477 Staggered jumper; 7-way; insulated; light gray	 Item No.: 2022-478 Staggered jumper; 8-way; insulated; light gray	 Item No.: 2022-479 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 In-line; 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-In-line; 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.: 2002-161
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 Test and measurement

1.3.9.1 Testing accessories



Item No.: 2002-560
Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 2,50 mm²; gray



Item No.: 2002-511
Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 2,50 mm²; gray



Item No.: 2002-552
Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 2,50 mm²; gray



Item No.: 2002-553
Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 2,50 mm²; gray



Item No.: 2002-554
Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 2,50 mm²; gray



Item No.: 2002-555
Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 2,50 mm²; gray



Item No.: 2002-556
Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; 2,50 mm²; gray



Item No.: 2002-557
Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; 2,50 mm²; gray



Item No.: 2002-558
Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; 2,50 mm²; gray



Item No.: 2002-559
Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; 2,50 mm²; gray



Item No.: 2002-549
Spacer module; modular; e.g., for bridging commoned terminal blocks; gray



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

1.3.10 Tool

1.3.10.1 Operating tool



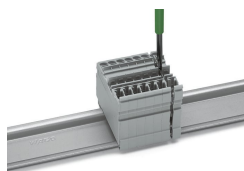
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

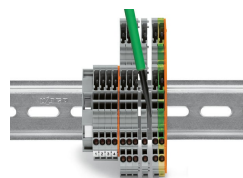
Installation



Snap individual carrier terminal blocks on-to the DIN-rail and slide together.

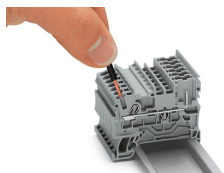


Open the assembly by laterally sliding a block via operating tool (3.5 x 0.5 mm blade).



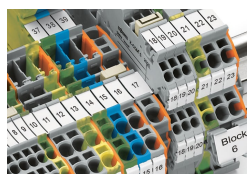
Separate terminal block assembly and slide individual terminal blocks laterally using an operating tool.

Conductor termination

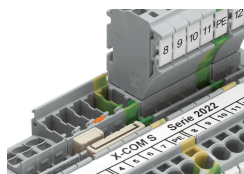


Push-in CAGE CLAMP® enables solid conductors to be connected by simply pushing them into the unit.

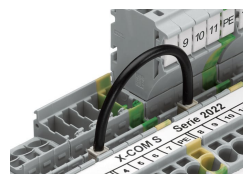
Commoning



Commoning X-COM®S-SYSTEM Terminal Blocks using jumpers for TOPJOB® S Terminal Blocks. An end plate provides connection to TOPJOB® S Terminal Blocks. 2020 and 2022 Series Terminal Blocks are combinable. Jumper slots are on the same level for both series.

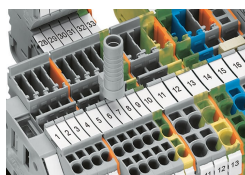


Pairing push-in comb style jumpers.



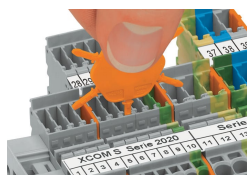
Commoning with push-in type wire jumper.

Testing



Test plug adapter (2009-174) for 4 mm test plugs or banana plugs – also suitable for X-COM®S-SYSTEM-MINI Terminal Blocks.

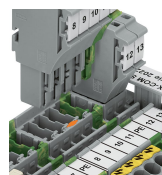
Coding



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



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



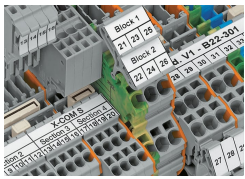
Insert a coding pin (2022-100) into the corresponding location of the carrier terminal block.

Ex application

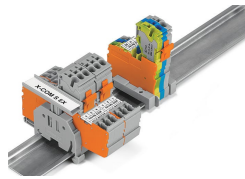


630 V = rated voltage for use in Zone 2 hazardous areas, "ec" type of protection
Ex marking:
"Ex" sign and extended item number
".../999-953" are printed on the side of both carrier terminal blocks and female plugs with Ex approval.
Shorter locking lever (factory-mounted) makes accidental disconnection more difficult.

Marking

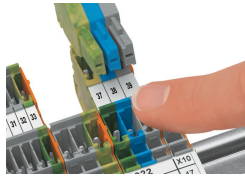


Clear marking via large marking area



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

Security



Carrier terminal blocks and female plugs are touch-proof.