

Color: E green-yellow

Ground terminal block, 2022 Series, green-yellow

This ground terminal block (item number 2022-1307) streamlines wire connections, making them both quick and easy. 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 for the perfect solution. Variable wiring systems make pre-assembly easy, which leads to considerable time and cost savings in production, installation, operation, and maintenance. Conductors should only be connected to this ground terminal block if their strip length is between 10 mm and 12 mm. This product features conductor terminals and utilizes Push-in CAGE CLAMP[®]. Push-in CAGE CLAMP[®] connection technology is ideal for connecting all conductor types. Both solid and fine-stranded conductors with ferrules can be plugged in without needing to use any tools—all thanks to its pluggable design. Depending on the conductor type, this ground terminal block is designed for conductor cross sections ranging from 0.25 mm² to 4 mm². It comes with one level and two clamping points for connecting a single potential. The green-yellow 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.. Conductors made of copper can be connected via front-entry wiring.

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®-SYSTEM terminal strip.

Electrical data

Ratings per	IEO	C/EN 60947-7	/-2
Overvoltage category	Ш	Ш	II
Pollution degree	3	2	2
Nominal voltage	-	-	-
Rated surge voltage	-	-	-
Rated current	-	-	-

Connection data

Clamping units	2
Female plug slots	1
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 mm²
Solid conductor	0.25 4 mm² / 22 12 AWG
Solid conductor; push-in termination	1 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

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Connection 1	
Fine-stranded conductor; with ferrule; push-in termination	1 2.5 mm² / 18 14 AWG
Note (conductor cross-section)	Depending on the conductor characteri- stic, 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	61.8 mm / 2.433 inches
Depth from upper-edge of DIN-rail	36.4 mm / 1.433 inches

Mechanical data	
Mounting type	DIN-35 rail
Marking level	Center/side marking

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	green-yellow
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.136 MJ
Weight	9.2 g

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

Commercial data	
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821145165
Customs tariff number	85366990990

Product classification	
UNSPSC	39121410
eCl@ss 10.0	27-14-11-41
eCl@ss 9.0	27-14-11-41
ETIM 9.0	EC000901
ETIM 8.0	EC000901
ECCN	NO US CLASSIFICATION

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Environmental Product Compliance

RoHS Compliance Status



Compliant,No Exemption

Approvals / Certificates

General approvals

CCA	SP	KEUR	91 °
		• •••••	

Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR CCA NL-7864
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 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
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads

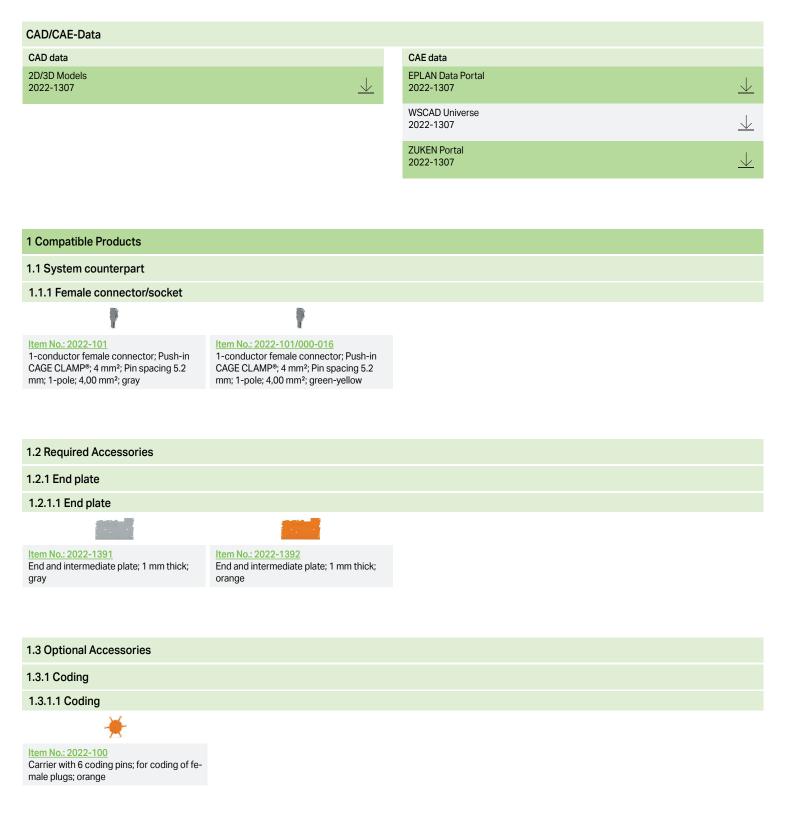
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Documentation

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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

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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.: 210-198

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



Item No.: 210-115 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.: 210-197

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



Item No.: 210-112

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

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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.: 210-113

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.: 216-263

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.: 216-246

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.: 216-242

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.: 216-244

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.: 216-266

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.: 216-262

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.: 216-264

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.: 216-286

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

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

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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

1.3.4 Insulation stop

1.3.4.1 Insulation stop

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Item No.: 2002-171

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

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Item No.: 2002-172 Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip; dark gray



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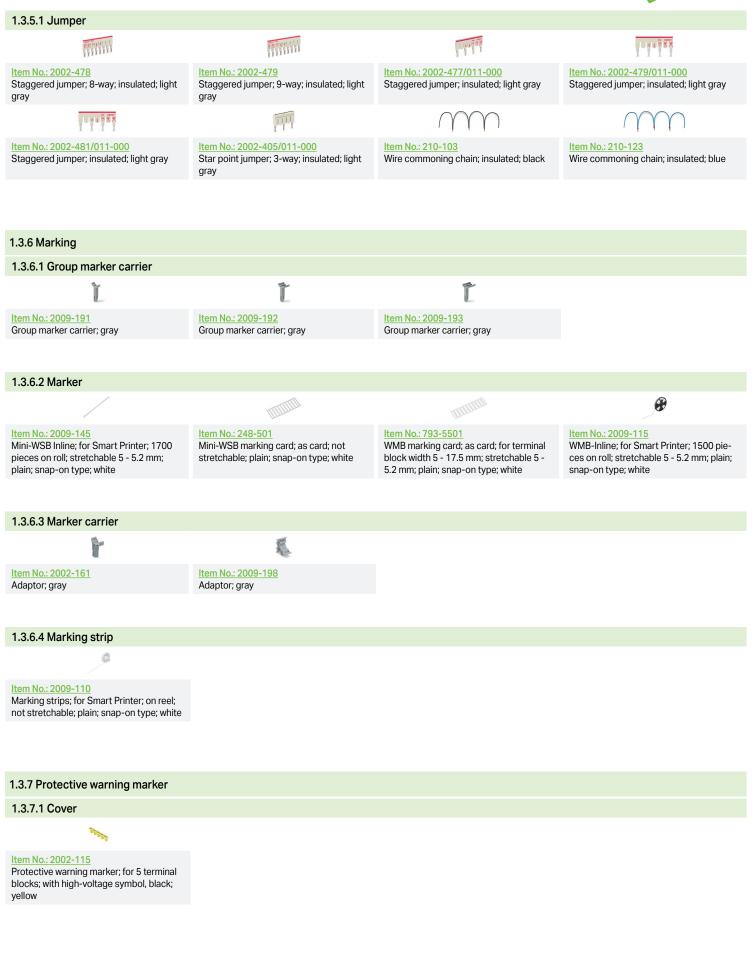
1.3.5 Jumper



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1.3.5.1 Jumper			
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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
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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
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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
	I	1	
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
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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
III			THE
<u>Item No.: 2002-404</u> 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
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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
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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
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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
TIT			
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
<u>Item No.: 2002-435</u> 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
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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; in- sulated; 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
<u>Item No.: 2002-474</u> Staggered jumper; 4-way; insulated; light gray	Item No.: 2002-475 Staggered jumper; 5-way; insulated; light gray	<u>Item No.: 2002-476</u> Staggered jumper; 6-way; insulated; light gray	Item No.: 2002-477 Staggered jumper; 7-way; insulated; light gray

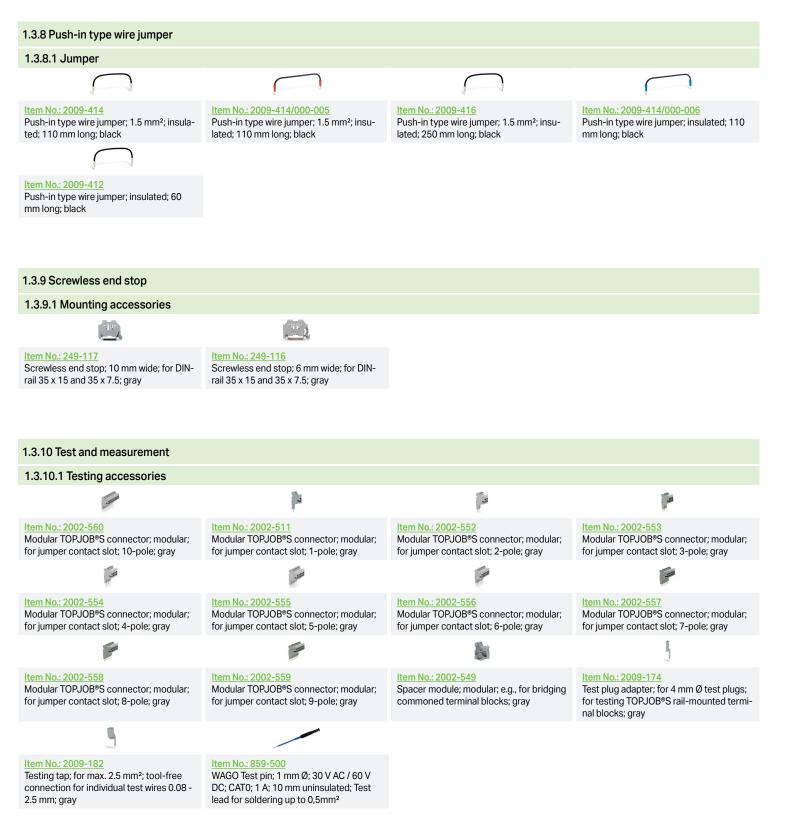
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1.3.11 Tool

1.3.11.1 Operating tool

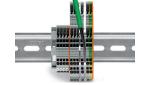


Installation Notes

Installation







Snap individual carrier terminal blocks onto 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 $^{\circ}$ 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.





Test plug adapter (Item No. 2009-174) for 4 mm test plugs or banana plugs – also suitable for X-COM®S-SYSTEM-MINI Terminal Blocks. W/AGD

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Coding



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

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



Insert a coding pin (Item No. 2022-100) into the corresponding location of the carrier terminal block.

Marking



Clear marking via large marking area



Group marking with height-adjustable group marker carrier (Item No. 2009-163)

Security



Carrier terminal blocks and female plugs are touch-proof.

Subject to changes. Please also observe the further product documentation!

