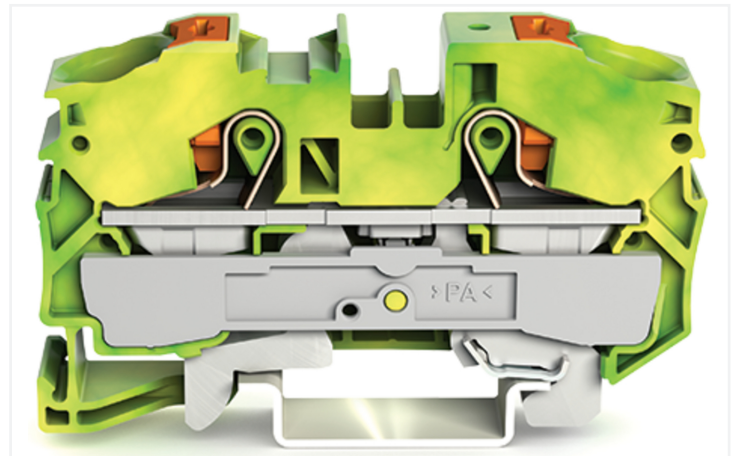
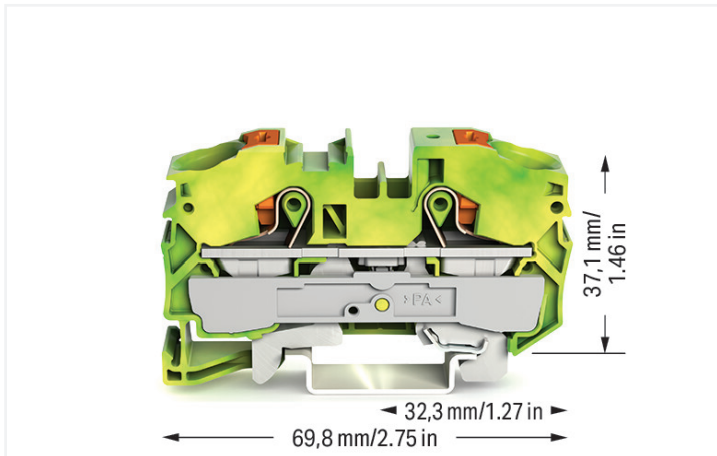


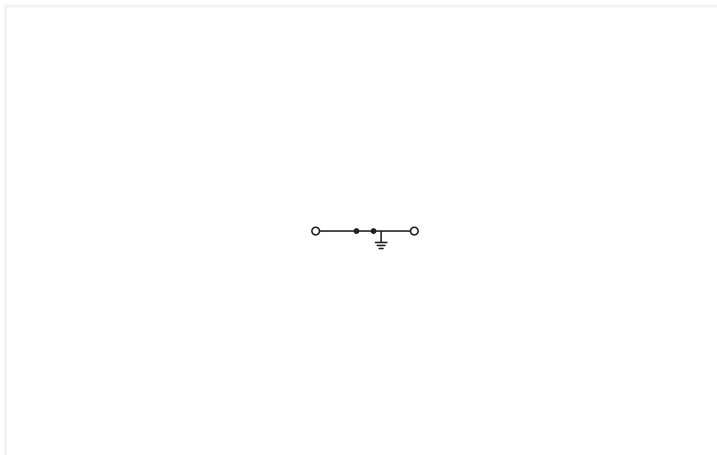
Data Sheet | Item Number: 2216-1207

2-conductor ground terminal block; with push-button; 16 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 16,00 mm²; green-yellow

<https://www.wago.com/2216-1207>



Color: ■ green-yellow



Similar to illustration

Ground terminal block, 2216 Series, green-yellow

This ground terminal block (item number 2216-1207) is designed for quick and easy connections. Strip lengths must be between 18 and 20 mm when connecting conductors to this ground terminal block. Ground terminal blocks connect directly to the mounting rail via an integrated contact foot. This creates an electrical and mechanical connection between the electrical conductors and the mounting adapter. Featuring conductor terminals along with Push-in CAGE CLAMP®, this product delivers reliable performance. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. This ground terminal block is suitable for conductor cross sections ranging from 0.5 mm² to 16 mm².

This through rail-mount terminal block is operated with a push-button. Our TOPJOB® S rail-mount terminal blocks offer more than just secure electrical connections in different industrial applications and modern building installations. They also offer the perfect actuation option for every application: lever, push-button, or operating slot. This product is designed for specific Ex applications (please refer to the product datasheet).

Electrical data		
Ratings per IEC/EN – Notes		Ex information
Rated current (note)	15 mm high DIN-35 rails shall be used for a current load higher than 76 A!	Reference to hazardous areas
		See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations"

General information	
Wiring direction	Front-entry wiring

Connection Data		
Clamping units	2	Connection 1
Total number of potentials	1	Connection technology
Number of levels	1	Push-in CAGE CLAMP®
Number of jumper slots	2	Actuation type
		Push-button
		Connectable conductor materials
		Copper
		Nominal cross-section
		16 mm²
		Solid conductor
		0.5 ... 16 mm² / 20 ... 6 AWG
		Solid conductor; push-in termination
		2.5 ... 16 mm² / 14 ... 6 AWG
		Stranded conductor
		0.5 ... 25 mm² / 20 ... 4 AWG
		Fine-stranded conductor
		0.5 ... 25 mm² / 20 ... 4 AWG
		Fine-stranded conductor; with insulated ferrule
		0.5 ... 16 mm² / 20 ... 6 AWG
		Fine-stranded conductor; with ferrule; push-in termination
		6 ... 16 mm² / 10 ... 6 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. AWG specifications were converted according to IEC.
		Strip length
		18 ... 20 mm / 0.71 ... 0.79 inches
		Wiring direction
		Front-entry wiring

Physical data	
Width	12 mm / 0.472 inches
Height	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	37.1 mm / 1.461 inches
Depth	43.7 mm / 1.72 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	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.327 MJ
Actuator color	orange
Weight	39.7 g

Environmental requirements

Continuous operating temperature	-60 ... +105 °C	
Environmental Testing		
Test specification:	DIN EN 50155 (VDE 0115-200):2022-06	
Railway applications – Rolling stock – Electronic equipment		
Test procedure:	DIN EN 61373 (VDE 0115-0106):2011-04	
Railway applications – Rolling stock equipment – Vibration and shock tests		
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)	20 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143732765
Customs tariff number	85369010000

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 10.0	EC000901
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-7947	ATEX-Attestation of Confor- mity WAGO GmbH & Co. KG	-	-
CSA DEKRA Certification B.V.	C22.2	70175032	EU-Declaration of Conformi- ty WAGO GmbH & Co. KG	-	-
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-152838	Railway WAGO GmbH & Co. KG	-	Z00004408.000
UL Underwriters Laboratories Inc.	C22.2 No. 158	UL-US- L45172-6187181-72608102-1	UK-Declaration of Conformi- ty WAGO GmbH & Co. KG	-	-

Approvals for marine applications

			Approvals for hazardous areas		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	24-0095985-PDA	AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
BV Bureau Veritas S.A.	IEC 60947	58186/A0 BV	ATEX Physikalisch Technische Bundesanstalt	EN 60079-0	PTB 18 ATEX 1009 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb)
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00003JT	CCC CNEX	GB/T 3836.3	2020312313000175 (Ex eb IIC Gb, Ex eb I Mb)
LR Lloyds Register	-	19/20050	IECEX Physikalisch Technische Bundesanstalt	IEC 60079	IECEX PTB 18.0016U (Ex eb IIC Gb and Ex eb I Mb)
			INMETRO TÜV Rheinland do Brasil Lt- da.	IEC 60079	TÜV 23.1454 U



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 2216-1207			↓

Documentation

Bid Text			
2216-1207	15.04.2019	xml 3.80 KB	↓
2216-1207	15.04.2019	docx 14.84 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 2216-1207	↓

CAE data	
EPLAN Data Portal 2216-1207	↓
ZUKEN Portal 2216-1207	↓

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



Item No.: 2016-1291
End and intermediate plate; 1 mm thick; gray



Item No.: 2016-1292
End and intermediate plate; 1 mm thick; orange



Item No.: 209-191
Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



Item No.: 2016-100
Finger guard; touchproof cover protects unused conductor entries; yellow

1.2.2 DIN-rail

1.2.2.1 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

1.2.3 Ferrule

1.2.3.1 Ferrule



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.: 216-289

Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-210

Ferrule; Sleeve for 16 mm² / AWG 6; 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



Item No.: 216-287

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-288

Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

1.2.4 Installation

1.2.4.1 Cover



Item No.: 709-156

Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.4.2 Cover carrier



Item No.: 709-169

Cover carrier; Type 3; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

1.2.5 Jumper

1.2.5.1 Jumper



Item No.: 2016-402

Jumper; 2-way; insulated; light gray



Item No.: 2016-403

Jumper; 3-way; insulated; light gray



Item No.: 2016-404

Jumper; 4-way; insulated; light gray



Item No.: 2016-405

Jumper; 5-way; insulated; light gray



Item No.: 2016-433

Jumper; from 1 to 3; insulated; light gray



Item No.: 2016-434

Jumper; from 1 to 4; insulated; light gray



Item No.: 2016-435

Jumper; from 1 to 5; insulated; light gray



Item No.: 2016-405/011-000

Star point jumper; 3-way; insulated; light gray

1.2.6 Marking

1.2.6.1 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

1.2.6.2 Marker



Item No.: 2009-145/000-006

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 2009-145/000-007

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 2009-145/000-023

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item No.: 2009-145/000-012

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 2009-145/000-005

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



Item No.: 2009-145/000-024

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



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.: 2009-145/000-002

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item No.: 248-501/000-006

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue



Item No.: 248-501/000-007

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray



Item No.: 248-501/000-023

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green



Item No.: 248-501/000-017

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green



Item No.: 248-501/000-012

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange



Item No.: 248-501/000-005

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red



Item No.: 248-501/000-024

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet



Item No.: 248-501

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 248-501/000-002

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow



Item No.: 793-5501/000-006

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 793-5501/000-007

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 793-5501/000-023

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item No.: 793-5501/000-017

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green



Item No.: 793-5501/000-012

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 793-5501/000-005

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red



Item No.: 793-5501/000-024

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet



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.: 793-5501/000-002

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item No.: 793-501/000-006

WMB marking card; as card; not stretchable; plain; snap-on type; blue



Item No.: 793-501/000-007

WMB marking card; as card; not stretchable; plain; snap-on type; gray

1.2.6.2 Marker


Item No.: 793-501/000-023

WMB marking card; as card; not stretchable; plain; snap-on type; green


Item No.: 793-501/000-017

WMB marking card; as card; not stretchable; plain; snap-on type; light green


Item No.: 793-501/000-012

WMB marking card; as card; not stretchable; plain; snap-on type; orange


Item No.: 793-501/000-005

WMB marking card; as card; not stretchable; plain; snap-on type; red


Item No.: 793-501/000-024

WMB marking card; as card; not stretchable; plain; snap-on type; violet


Item No.: 793-501

WMB marking card; as card; not stretchable; plain; snap-on type; white


Item No.: 793-501/000-002

WMB marking card; as card; not stretchable; plain; snap-on type; yellow


Item No.: 2009-115/000-006

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue


Item No.: 2009-115/000-007

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray


Item No.: 2009-115/000-023

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green


Item No.: 2009-115/000-017

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green


Item No.: 2009-115/000-012

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange


Item No.: 2009-115/000-024

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet


Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white


Item No.: 2009-115/000-002

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.2.6.3 Marker carrier


Item No.: 2009-198

Adaptor; gray

1.2.6.4 Marking strip


Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.2.7 Screwless end stop

1.2.7.1 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

1.2.8 Test and measurement

1.2.8.1 Testing accessories


Item No.: 2016-511

Modular TOPJOB*S connector; modular; for jumper contact slot; 1-pole; gray


Item No.: 2016-549

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

1.2.9 Tool

1.2.9.1 Operating tool



Item No.: 210-721

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

Installation Notes

Conductor termination



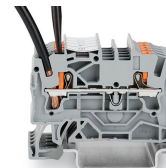
All conductor types at a glance



Push-in termination of solid and ferruled conductors

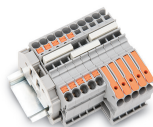


Insert fine-stranded conductors via operating tool.



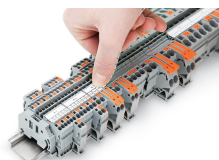
Removing all conductors via operating tool.

Commoning

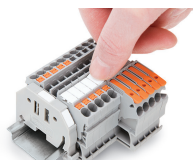


Insert a push-in type jumper bar and push down until it hits the backstop.

Marking



Snapping a marking strip into a marker slot.



Snapping a marking strip into the marker slot.