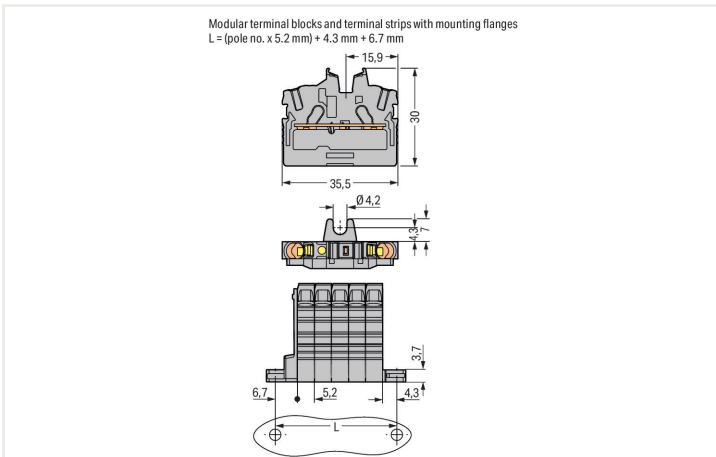
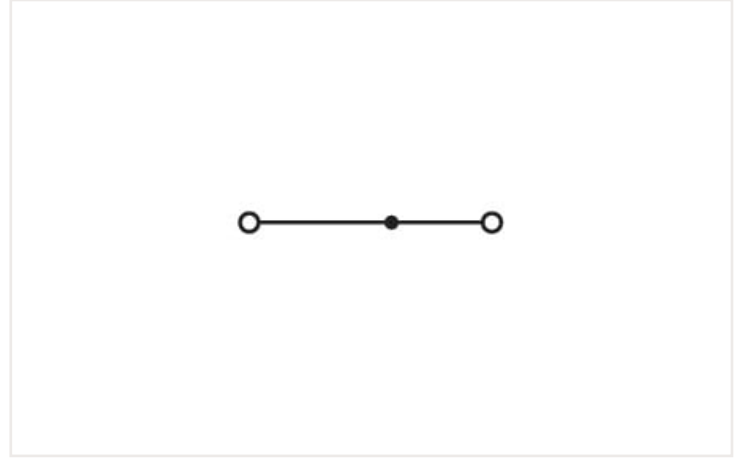


Data sheet | Item number: 2052-307

2-conductor miniature through terminal block; with operating slots; 2.5 mm²; End terminal block with mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 2,50 mm²; green-yellow



Electrical data

Ex information

Reference hazardous areas See Downloads – Documentation – Additional Information: Technical Section; Technical explanations

Connection data

Total number of connection points	2
Total number of potentials	1
Number of levels	1
Number of jumper slots	1

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in 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	1 ... 4 mm ² / 18 ... 12 AWG
Fine-stranded conductor	0.25 ... 4 mm ² / 22 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	1 ... 2.5 mm ² / 18 ... 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 from the surface	30 mm / 1.181 inches
Depth	35.5 mm / 1.398 inches

Mechanical data

Mounting type	Mounting flange
Marking level	Center/side marking

Material data

Note (material data)	Information on material data can be found here
Color	green-yellow
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.096 MJ
Weight	4.4 g

Environmental requirements

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

Commercial data

ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	100 Pieces
Country of origin VKOrg Germany	DE
GTIN	4066966146950
Customs tariff number VKOrg Germany	85369010000

Approvals and certificates

Ex-Approvals



Approval	Standard	Certificate name
AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
ATEX Physikalisch Technische Bundesanstalt	EN IEC 60079-0	PTB 20 ATEX 1013 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb)
IECEX Physikalisch Technische Bundesanstalt	IEC 60079	IECEX PTB 20.0029 U (Ex eb IIC Gb resp. Ex eb I Mb)

Country specific Approvals



Approval	Standard	Certificate name
CCA DEKRA Certification B.V.	EN 60998	NTR NL 7885
CSA DEKRA Certification B.V.	C22.2	80058059
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-119680

UL-Approvals



Approval	Standard	Certificate name
UL Underwriters Laboratories Inc.	UL 1059	E45172

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 2052-307



Documentation

Additional Information

Technical Section

pdf
2142.18 KB



CAD/CAE-Data

CAD data

2D/3D Models
2052-307



CAE data

EPLAN Data Portal
2052-307



ZUKEN Portal
2052-307



1 Compatible products

1.1 System counterpart

1.1.1 Through terminal block



Item no.: 2052-327
 2-conductor miniature through terminal block; with operating slots; 2.5 mm²; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 2,50 mm²; green-yellow

1.2 Required accessories

1.2.1 End plate

1.2.1.1 End plate



Item no.: 2052-381
 End plate; gray

1.3 Optional accessories

1.3.1 Ferrule

1.3.1.1 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.: 216-246
 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

1.3.2 Installation

1.3.2.1 Mounting accessories



Item no.: 209-137
Mounting adapter; can be used as end stop; 6.5 mm wide; gray



Item no.: 209-123
Mounting foot with screw; can be screwed on terminal blocks with fixing flange; 6.4 mm wide; gray

1.3.3 Insulation stop

1.3.3.1 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

1.3.4 Jumper

1.3.4.1 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.: 2002-406/020-000
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

1.3.4.1 Jumper





















 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	 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	

1.3.5 Marking

1.3.5.1 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
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1.3.5.2 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.: 793-5501/000-014 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown	 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

1.3.5.2 Marker



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



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.: 2009-115/000-005
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



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

1.3.5.3 Marker carrier



Item no.: 2002-161
Adaptor; gray



Item no.: 2009-198
Adaptor; gray

1.3.5.4 Marking strip



Item no.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.3.6 Protective warning marker

1.3.6.1 Cover



Item no.: 2002-115

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.3.7 Push-in type wire jumper

1.3.7.1 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

1.3.8 Test and measurement

1.3.8.1 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.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red



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.: 2002-649

TOPJOB®S L-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray



Item no.: 2002-611

TOPJOB®S L-type test plug module; modular; 1-pole; 2,50 mm²; gray

1.3.9 Tool

1.3.9.1 Operating tool



Item no.: 210-658

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

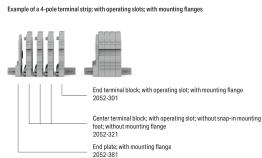


Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation notes

Installation



Conductor termination



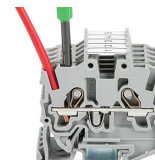
Insert solid conductors via push-in termination.



Insert ferruled conductors via push-in termination.

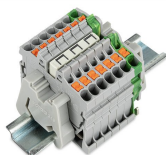


Insert fine-stranded conductors via operating tool.

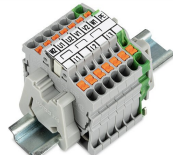


Remove all conductors via operating tool.

Commoning



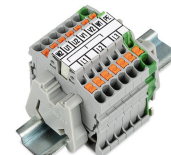
Insert a delta jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).



Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (delta jumper) (example shows terminal blocks with push-buttons)



Insert a star point jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).



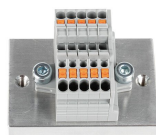
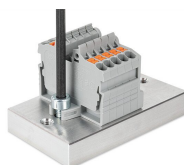
Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (example shows terminal blocks with push-buttons)

Testing



Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).

Installation



Marking



Snapping a marking strip into the marker slot.

Snapping a marking strip (2009-110) into a marker slot.