

Data sheet | Item number: 235-801

Stackable PCB terminal block; 2.5 mm²; Pin spacing 10/10.16 mm; 1-pole;
PUSH WIRE®; 2,50 mm²; gray



235-801

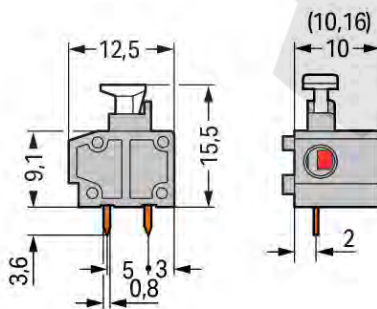
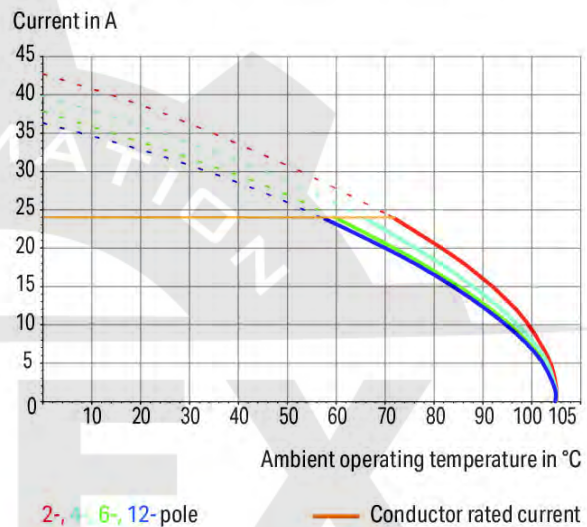


RoHS
Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:

Current-Carrying Capacity Curve
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm² "e"
Based on: EN 60512-5-2 / Reduction factor: 1



Item description

- Low-profile modular PCB terminal blocks with PUSH WIRE® connection for custom terminal strip assemblies
- Push-in termination for solid conductors



- Double solder pins for high mechanical stability
- Conductor removal via screwdriver (2.5mm x 0.4mm)
- Set to metric or inch pin spacing by compressing terminal strips or pulling them apart
- Also available with test slot

Data

Electrical data

Ratings per IEC/EN 60664-1

Rated voltage (III / 3)	630 V
Rated impulse voltage (III / 3)	8 kV
Rated voltage (III / 2)	1000 V
Rated impulse voltage (III / 2)	8 kV
Rated voltage (II / 2)	1000 V
Rated impulse voltage (II / 2)	8 kV
Rated current	24 A

Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group D)	300 V

Approvals per CSA

Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	15 A

Connection data

Connection technology	PUSH WIRE®
Actuation type	Operating tool
Solid conductor	0.5 2.5 mm² / 20 14 AWG
Fine-stranded conductor with ferrule with plastic collar	0.25 1.5 mm²
Fine-stranded conductor with ferrule without plastic collar	0.25 1.5 mm²
Strip length	9 10 mm / 0.35 0.39 inch
Conductor entry angle to the PCB	0°
Total number of connection points	1
Total number of potentials	1
Number of connection types	1
Number of levels	1
No. of poles	1

Geometrical Data

Pin spacing	10/10.16 mm / 0.394/0.4 inch
Width	11.5 mm / 0.453 inch
Height	12.8 mm / 0.504 inch
Height from the surface	9.2 mm / 0.362 inch
Depth	12.5 mm / 0.492 inch
Solder pin length	3.6 mm
Solder pin dimensions	0.8 x 0.4 mm
Drilled hole diameter (tolerance)	$1(- \dots +0.1)$ mm

PCB contact

PCB contact	THT
Solder pin arrangement	within the terminal block, in line
Number of solder pins per potential	2

Material Data

Color	gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E_{Cu})
Contact plating	tin-plated
Fire load	0.021 MJ
Weight	1.008 g

Environmental Requirements

Limit temperature range	-60 +105 °C
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Commercial data

Product Group	4 (Printed Circuit)
Country of origin	CN
GTIN	4044918833080
Customs Tariff No.	85369010000

Approvals / Certificates

Radio-Approvals

Logo	Approval	Additional Approval Text	Certificate name
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CCA	CCA DEKRA Certification B.V.	EN 60947	NTR NL- 7144
CCA	CCA DEKRA Certification B.V.	EN 60998	NTR NL- 6919
CCA	CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL- 7625
CCA	CCA DEKRA Certification B.V.	IEC 60947-7-4	NTR NL- 7625
	CCA DEKRA Certification B.V.	EN 60947	2149549.02
	VDE VDE Prüf- und Zertifizierungsinstitut	EN 60947	40029328
Country specific Approvals			
Logo	Approval	Additional Approval Text	Certificate name
CCA	CCA DEKRA Certification B.V.	EN 60947	NTR NL- 7144
CCA	CCA DEKRA Certification B.V.	EN 60998	NTR NL- 6919
	CCA DEKRA Certification B.V.	EN 60947	2149549.02
CCA	CCA DEKRA Certification B.V.	EN 60947-7-4, IEC 60947-7-4	NTR NL- 7625
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z



VDE
VDE Prüf- und Zertifizierungsinstitut

EN 60947

40029328

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	14- HG1241537- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH	-	E45172 sec. 6

Compatible products

ferrule

	Item no.: 216-101 Ferrule; Sleeve for 0.5 mm ² / AWG 22; uninsulated; electro-tin plated	216-101
	Item no.: 216-102 Ferrule; Sleeve for 0.75 mm ² / AWG 20; uninsulated; electro-tin plated	216-102
	Item no.: 216-103 Ferrule; Sleeve for 1 mm ² / AWG 18; uninsulated; electro-tin plated	216-103
	Item no.: 216-104 Ferrule; Sleeve for 1.5 mm ² / AWG 16; uninsulated; electro-tin plated	216-104
	Item no.: 216-121 Ferrule; Sleeve for 0.5 mm ² / AWG 22; uninsulated; electro-tin plated	216-121
	Item no.: 216-122 Ferrule; Sleeve for 0.75 mm ² / AWG 20; uninsulated; electro-tin plated	216-122
	Item no.: 216-123	

	Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated	216-123
	Item no.: 216-124 Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated	216-124
	Item no.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	216-131
	Item no.: 216-132 Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	216-132
	Item no.: 216-141 Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	216-141
	Item no.: 216-142 Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	216-142
	Item no.: 216-143 Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	216-143
	Item no.: 216-144 Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	216-144
	Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	216-151
	Item no.: 216-152 Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	216-152
	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	216-201
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	216-203
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	216-204
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	216-221
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	216-224
	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	216-241
	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	216-242
	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	216-243
	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	216-244
	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	216-262
	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	216-263
	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	216-264
	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	216-284
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green	216-302
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green	216-322
General accessories		
	Item no.: 235-701 Spacer; for doubling the pin spacing; gray	235-701
tools		
	Item no.: 210-647 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	210-647
	Item no.: 210-648 Operating tool with partially insulated shaft; Blade (2.5 x 0.4) mm; short; angled	210-648
	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	210-719
Marking accessories		
	Item no.: 210-332/1000-202 Marking strips; as a DIN A4 sheet; MARKED; 1-16 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white	210-332 / 1000-202
	Item no.: 210-332/1000-204 Marking strips; as a DIN A4 sheet; MARKED; 17-31 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white	210-332 / 1000-204

Item no.: 210-332/1000-206		210-332
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white		/ 1000-206
Item no.: 210-332/1016-202		210-332
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white		/ 1016-202
Item no.: 210-332/1016-204		210-332
Marking strips; as a DIN A4 sheet; MARKED; 17-31 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white		/ 1016-204
Item no.: 210-332/1016-206		210-332
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white		/ 1016-206
End plate		
	Item no.: 235-100 End plate; snap-fit type; 1 mm thick; gray	235-100
	Item no.: 235-200 End plate; snap-fit type; 1 mm thick; dark gray	235-200
	Item no.: 235-300 End plate; snap-fit type; 1 mm thick; light gray	235-300
	Item no.: 235-400 End plate; snap-fit type; 1 mm thick; blue	235-400
	Item no.: 235-500 End plate; snap-fit type; 1 mm thick; black	235-500
	Item no.: 235-550 End plate; snap-fit type; 1 mm thick; yellow	235-550
	Item no.: 235-600 End plate; snap-fit type; 1 mm thick; orange	235-600
	Item no.: 235-650 End plate; snap-fit type; 1 mm thick; violet	235-650
	Item no.: 235-700 End plate; snap-fit type; 1 mm thick; light green	235-700
	Item no.: 235-800 End plate; snap-fit type; 1 mm thick; red	235-800
	Item no.: 235-850 End plate; snap-fit type; 1 mm thick; white	235-850

Downloads

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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CAD/CAE - Smart Data

CAD data

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Subject to changes.