

High-current terminal block - PTPOWER 150-3L/FE



3215007

<https://www.phoenixcontact.com/us/products/3215007>

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High-current terminal block, Blocked, nom. voltage: 1500 V, nominal current: 309 A, connection method: PowerTurn connection, 1 level, cross section: 50 mm² - 150 mm², mounting type: NS 35/15, color: gray/black-yellow

Commercial Data

Item number	3215007
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	B02
Product Key	BE2211
Catalog Page	Page 131 (C-1-2017)
GTIN	4046356902953
Weight per Piece (including packing)	1,285 g
Weight per Piece (excluding packing)	1,285 g
Customs tariff number	85369010
Country of origin	PL

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Technical Data

Product properties

Product type	High current terminal block
Number of positions	4
Pitch	31 mm
Number of connections	8
Number of rows	1
Potentials	4

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
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Connection data

Number of connections per level	8
Nominal cross section	150 mm ²

1 level

Stripping length	40 mm
Internal cylindrical gage	B14
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid	50 mm ² ... 150 mm ²
Cross section AWG	1/0 ... 300 kcmil (converted acc. to IEC)
Conductor cross section flexible	50 mm ² ... 150 mm ²
Conductor cross section, flexible [AWG]	1/0 ... 300 kcmil (converted acc. to IEC)
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	50 mm ² ... 95 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	50 mm ² ... 95 mm ²
Cross-section with insertion bridge, rigid	50 mm ² ... 150 mm ²
Cross-section with insertion bridge, flexible	50 mm ² ... 150 mm ²
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	50 mm ² ... 95 mm ²
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	50 mm ² ... 95 mm ²
Nominal current	309 A
Maximum load current	309 A (with 150 mm ² conductor cross section)
Nominal voltage	1500 V DC
	1000 V AC

1 level Connection cross sections directly pluggable

Conductor cross section solid	50 mm ² ... 150 mm ²
Flexible conductor cross section flexible (ferrule, w/o plastic	50 mm ² ... 95 mm ²

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sleeve)	
Flexible conductor cross section (ferrule with plastic sleeve)	50 mm ² ... 95 mm ²

Dimensions

Width	124 mm
Height NS 35/15	108.7 mm
Length	116.4 mm
Pitch	31 mm

Material specifications

Color	gray/black-yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Mechanical properties

Mechanical data

Open side panel	No
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Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
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Mounting

Mounting type	NS 35/15
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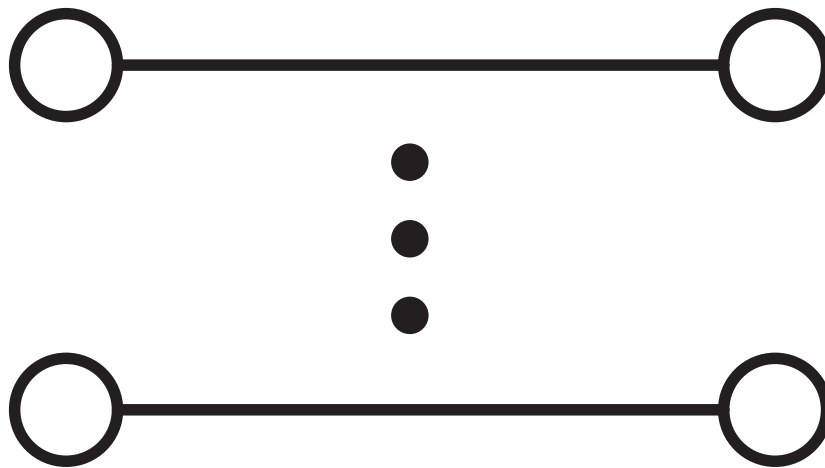


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Drawings

Circuit diagram



High-current terminal block - PTPOWER 150-3L/FE



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Classifications

ECLASS

ECLASS-9.0	27141120
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ETIM

ETIM 7.0	EC000897
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Note: Applying some accessories below might limit this product.

Insertion bridge

Insertion bridge - EB 2-31/PT - 3215057

<https://www.phoenixcontact.com/us/products/3215057>

Insertion bridge, pitch: 31 mm, color: red



Max. current carrying capacity: 232 A

Insertion bridge

Insertion bridge - EB 3-31/PT - 3215058

<https://www.phoenixcontact.com/us/products/3215058>

Insertion bridge, pitch: 31 mm, color: red



Max. current carrying capacity: 232 A

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Pick-off terminal block

Pick-off terminal block - AGK 10-PTPOWER - 3260145

<https://www.phoenixcontact.com/us/products/3260145>



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 PowerTurn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, 1 level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: on base element, color: gray

Pick-off terminal block

Pick-off terminal block - AGK 10-PTPOWER BU - 3260148

<https://www.phoenixcontact.com/us/products/3260148>



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 PowerTurn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, 1 level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: on base element, color: blue

High-current terminal block - PTPOWER 150-3L/FE



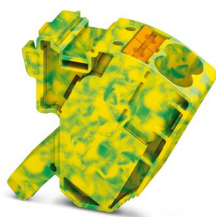
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Pick-off terminal block

Pick-off terminal block - AGK 10-PTPOWER GN/YE - 3260151

<https://www.phoenixcontact.com/us/products/3260151>



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 PowerTurn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, 1 level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: on base element, color: green/yellow

Pick-off terminal block

Pick-off terminal block - AGK 10-PTPOWER BK/YE - 3260154

<https://www.phoenixcontact.com/us/products/3260154>



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 PowerTurn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, 1 level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: on base element, color: black/yellow

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Screwdriver

Screwdriver - SZF 3-1,0X5,5 - 1206612

<https://www.phoenixcontact.com/us/products/1206612>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

DIN rail perforated

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730

<https://www.phoenixcontact.com/us/products/1201730>



DIN rail perforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

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DIN rail, unperforated

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714

<https://www.phoenixcontact.com/us/products/1201714>



DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail perforated

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602

<https://www.phoenixcontact.com/us/products/0806602>



DIN rail perforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white, Pack of 25 (50 m)

High-current terminal block - PTPOWER 150-3L/FE



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<https://www.phoenixcontact.com/us/products/3215007>

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM-VPE 10 - 1204135

<https://www.phoenixcontact.com/us/products/1204135>



DIN rail, unperforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756

<https://www.phoenixcontact.com/us/products/1201756>



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

High-current terminal block - PTPOWER 150-3L/FE



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<https://www.phoenixcontact.com/us/products/3215007>

DIN rail perforated

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599

<https://www.phoenixcontact.com/us/products/1206599>



DIN rail perforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586

<https://www.phoenixcontact.com/us/products/1206586>



DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

High-current terminal block - PTPOWER 150-3L/FE



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<https://www.phoenixcontact.com/us/products/3215007>

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM-VPE 10 - 1201895

<https://www.phoenixcontact.com/us/products/1201895>



DIN rail, unperforated, similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

End cap

End cap - NS 35/15 CAP - 1206573

<https://www.phoenixcontact.com/us/products/1206573>

DIN rail end piece, for DIN rail NS 35/15



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End clamp

End clamp - E/AL-NS 35 - 1201662

<https://www.phoenixcontact.com/us/products/1201662>



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

Marker for terminal blocks

Marker for terminal blocks - TMT (EX9,5)R - 0828295

<https://www.phoenixcontact.com/us/products/0828295>



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: snapped, snap into tall marker groove, lettering field size: 9.5 x 50000 mm, Number of individual labels: 1

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Marker for terminal blocks

Marker for terminal blocks - US-TM 100 - 0829255

<https://www.phoenixcontact.com/us/products/0829255>



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, lettering field size: 104 x 9.8 mm, Number of individual labels: 13

Zack marker strip

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001

<https://www.phoenixcontact.com/us/products/1053001>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10.5 mm x 10.15 mm, Number of individual labels: 10

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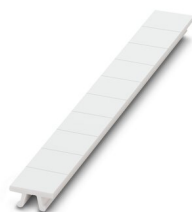
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<https://www.phoenixcontact.com/us/products/3215007>

Zack marker strip

Zack marker strip - ZB 10 CUS - 0824941

<https://www.phoenixcontact.com/us/products/0824941>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip

Zack marker strip - ZB10,LGS:FORTL.ZAHLEN - 1053014

<https://www.phoenixcontact.com/us/products/1053014>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

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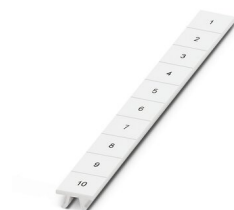
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<https://www.phoenixcontact.com/us/products/3215007>

Zack marker strip

Zack marker strip - ZB10,QR:FORTL.ZAHLEN - 1053027

<https://www.phoenixcontact.com/us/products/1053027>

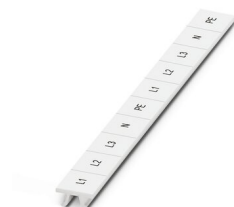


Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks

Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412

<https://www.phoenixcontact.com/us/products/1053412>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

High-current terminal block - PTPOWER 150-3L/FE



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Marker for terminal blocks

Marker for terminal blocks - ZB10,LGS:U-N - 1053438

<https://www.phoenixcontact.com/us/products/1053438>

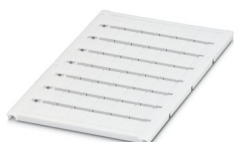


Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks

Marker for terminal blocks - UC-TM 10 - 0818069

<https://www.phoenixcontact.com/us/products/0818069>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

High-current terminal block - PTPOWER 150-3L/FE



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Marker for terminal blocks

Marker for terminal blocks - UC-TM 10 CUS - 0824605

<https://www.phoenixcontact.com/us/products/0824605>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 10 - 0829142

<https://www.phoenixcontact.com/us/products/0829142>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

High-current terminal block - PTPOWER 150-3L/FE



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<https://www.phoenixcontact.com/us/products/3215007>

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 10 CUS - 0829623

<https://www.phoenixcontact.com/us/products/0829623>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

Zack marker strip

Zack marker strip - ZB 20,3:UNPRINTED - 0820248

<https://www.phoenixcontact.com/us/products/0820248>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 20.3 mm, lettering field size: 10.5 x 20.25 mm, Number of individual labels: 5

High-current terminal block - PTPOWER 150-3L/FE



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Zack marker strip

Zack marker strip - ZB 20,3 CUS - 0824948

<https://www.phoenixcontact.com/us/products/0824948>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 20.3 mm, lettering field size: 10.5 x 20.25 mm, Number of individual labels: 5

Test plugs

Test plugs - MPS-MT - 0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray

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Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



Insulating sleeve

Insulating sleeve - MPS-IH RD - 0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red



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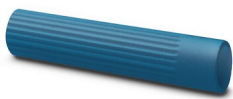
<https://www.phoenixcontact.com/us/products/3215007>

Insulating sleeve

Insulating sleeve - MPS-IH BU - 0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



Insulating sleeve

Insulating sleeve - MPS-IH YE - 0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



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Insulating sleeve

Insulating sleeve - MPS-IH GN - 0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



Insulating sleeve

Insulating sleeve - MPS-IH GY - 0201728

<https://www.phoenixcontact.com/us/products/0201728>

Insulating sleeve, color: gray



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Insulating sleeve

Insulating sleeve - MPS-IH BK - 0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



Software

Software - PROJECT COMPLETE - 1050453

<https://www.phoenixcontact.com/us/products/1050453>



Intuitive planning and marking software for configuring terminal strips and for professional marking of marking materials for terminal blocks, conductors, cables, devices, and systems. The software is available for download

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Ferrule

Ferrule - A 25 -40 - 3241238

<https://www.phoenixcontact.com/us/products/3241238>



Ferrule, length: 40 mm, color: silver

Ferrule

Ferrule - A 35 -40 - 3241239

<https://www.phoenixcontact.com/us/products/3241239>



Ferrule, length: 40 mm, color: silver

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Ferrule

Ferrule - A 50 -40 - 3241240

<https://www.phoenixcontact.com/us/products/3241240>

Ferrule, length: 40 mm, color: silver



Ferrule

Ferrule - A 70 -40 - 3241241

<https://www.phoenixcontact.com/us/products/3241241>

Ferrule, length: 40 mm, color: silver



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Ferrule

Ferrule - A 95 -40 - 3241242

<https://www.phoenixcontact.com/us/products/3241242>

Ferrule, length: 40 mm, color: silver



Crimping pliers

Crimping pliers - CRIMPFOX 50R - 1212041

<https://www.phoenixcontact.com/us/products/1212041>



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 35 mm² ... 50 mm², lateral entry, WM crimp

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Crimping pliers

Crimping pliers - CRIMPFOX-M - 1212072

<https://www.phoenixcontact.com/us/products/1212072>

Basic pliers, for accommodating dies for a wide range of type of contacts



Crimping pliers

Crimping pliers - CRIMPFOX-C120 - 1212318

<https://www.phoenixcontact.com/us/products/1212318>

Basic pliers, for accommodating dies for a wide range of type of contacts up to 120 mm²



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