PCB terminal block - PLH 16/ 8-10 - 1770458

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The figure shows a 5-pos. version of the product

PCB terminal block, nominal current: 76 A, rated voltage (III/2): 400 V, pitch: 10 mm, number of positions: 8, connection method: Push-lock spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Solder pin [P]: 4.5 mm

Your advantages

- Tool-free lever principle enables time-saving connection and release of conductors with/without ferrules
- Defined contact force ensures that contact remains stable over the long term
- Time-saving push-in connection when lever is closed
- Quick and convenient testing using integrated test option



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	4 046356 458337
GTIN	4046356458337
Weight per Piece (excluding packing)	70.000 g
Custom tariff number	85369010
Country of origin	Slovakia

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	PLH 16/
Pitch	10 mm
Number of positions	8

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Technical data

Item properties

Connection method	Push-lock spring connection
Mounting type	Wave soldering
Pin layout	Linear double pinning
Number of levels	1
Number of connections	8
Number of potentials	8

Connection capacity

Conductor cross section solid	0.75 mm² ... 16 mm²
Conductor cross section flexible	0.75 mm² ... 25 mm²
Conductor cross section AWG / kcmil	18 ... 4
Conductor cross section flexible, with ferrule without plastic sleeve	0.75 mm² ... 16 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.75 mm² ... 10 mm²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.75 mm² ... 4 mm²
Stripping length	18 mm

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Tin-plated
Metal surface terminal point (top layer)	Tin (10 - 16 µm Sn)
Metal surface soldering area (top layer)	Tin (10 - 16 µm Sn)

Material data - housing

Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Dimensions for the product

Length [l]	30.5 mm
Width [w]	81.4 mm
Height [h]	33.5 mm
Pitch	10 mm
Height (without solder pin)	29 mm

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Technical data

Dimensions for the product

Solder pin [P]	4.5 mm
Pin spacing	12.5 mm
Pin dimensions	1.2 x 1.2 mm
Dimension a	70 mm

Dimensions for PCB design

Hole diameter	1.6 mm
Pin spacing	12.5 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	25
Denomination packing units	Pcs.

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (Depending on the current carrying capacity/derating curve)

Termination and connection method

Test result	Test passed
Test – repeated connection and release	IEC 60999-1:1999-11
	Test passed
Test for conductor damage and slackening	IEC 60999-1:1999-11
	Test passed

Pull-out test

Pull-out test	IEC 60999-1:1999-11
	Test passed
Conductor cross section / conductor type / tensile force	0.75 mm² / solid / > 30 N
	0.75 mm² / flexible / > 30 N
	16 mm² / stranded / > 100 N
	16 mm² / flexible / > 100 N
	10 mm² / flexible with ferrule / > 90 N

Electrical tests

Rated current	76 A
Conductor cross section	25 mm²
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV

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Technical data

Air clearances and creepage distances

Rated insulation voltage (III/3)	400 V
Rated insulation voltage (III/2)	400 V
Rated insulation voltage (II/2)	800 V
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Minimum clearance - inhomogeneous field (III/3)	3 mm
Minimum clearance - inhomogeneous field (III/2)	3 mm
Minimum clearance - inhomogeneous field (II/2)	3 mm
Minimum creepage distance value (III/3)	5 mm
Minimum creepage distance value (III/2)	3 mm
Minimum creepage distance value (II/2)	4 mm

Current carrying capacity / derating curves

Vibration test

Specification	IEC 60068-2-6:2007-12
Result	Test passed
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Test duration per axis	2.5 h

Standards and Regulations

Connection in acc. with standard	UL
Flammability rating according to UL 94	V0

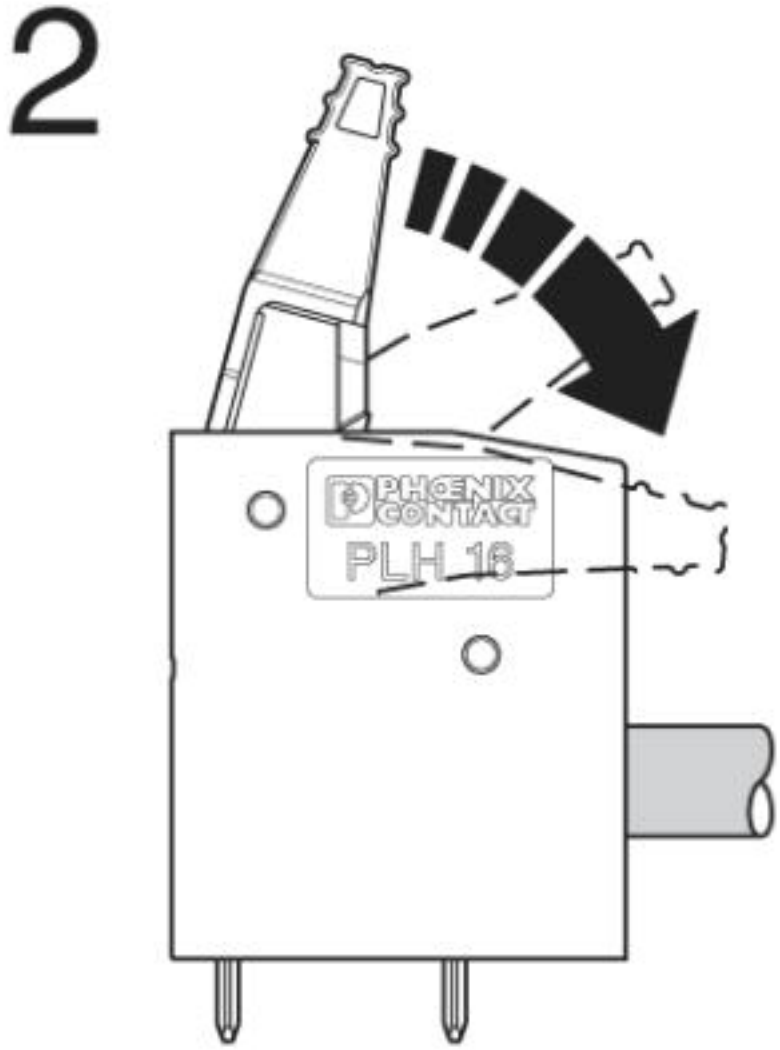
Environmental Product Compliance

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

Drawings

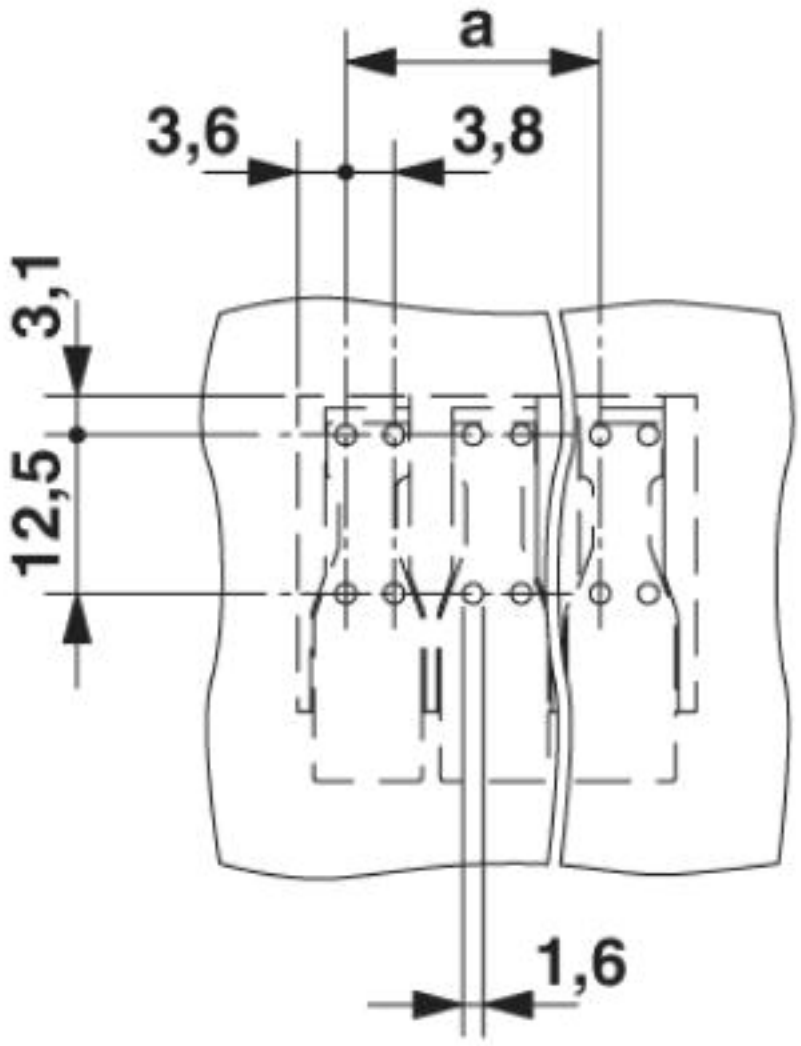
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Functional drawing



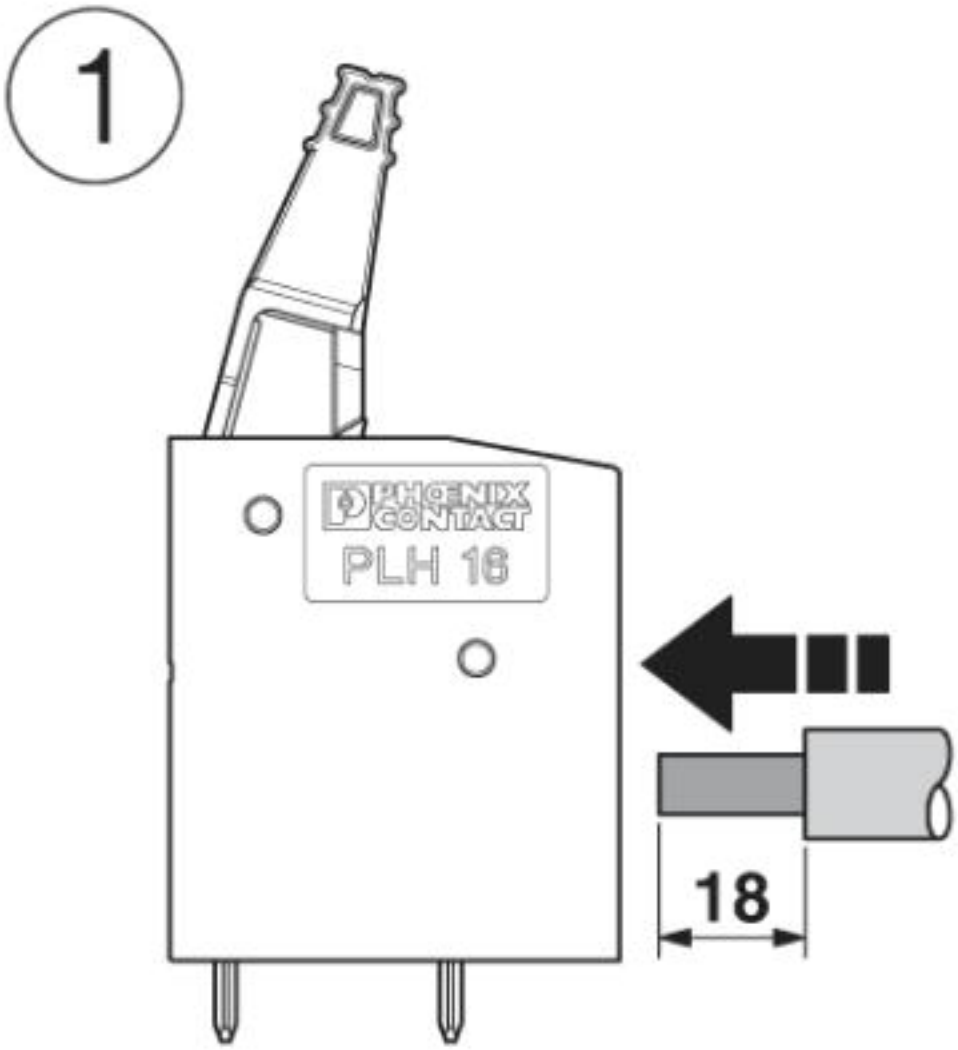
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Drilling diagram



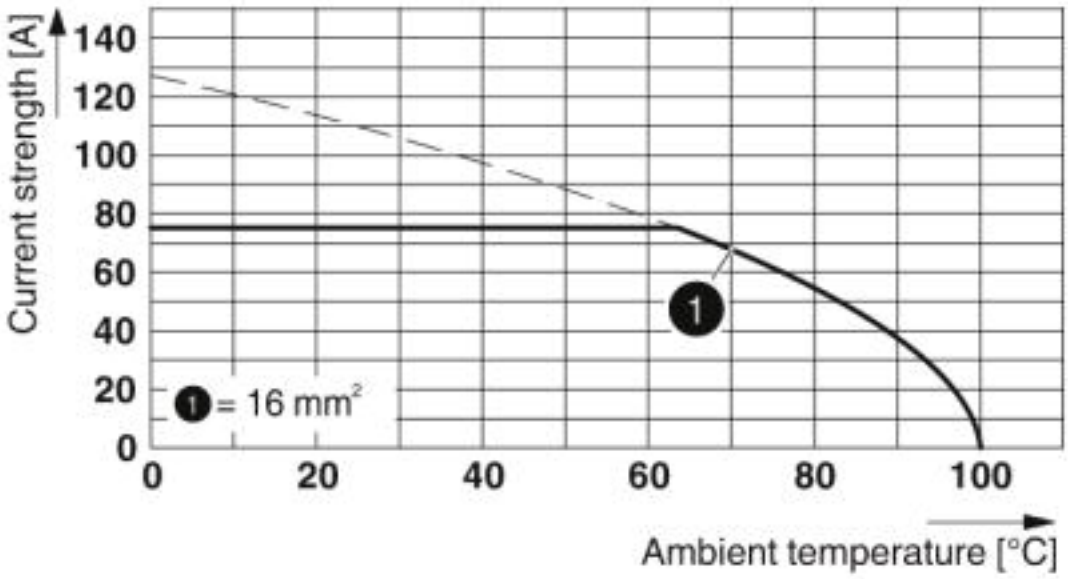
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Functional drawing



PCB terminal block - PLH 16/ 8-10 - 1770458

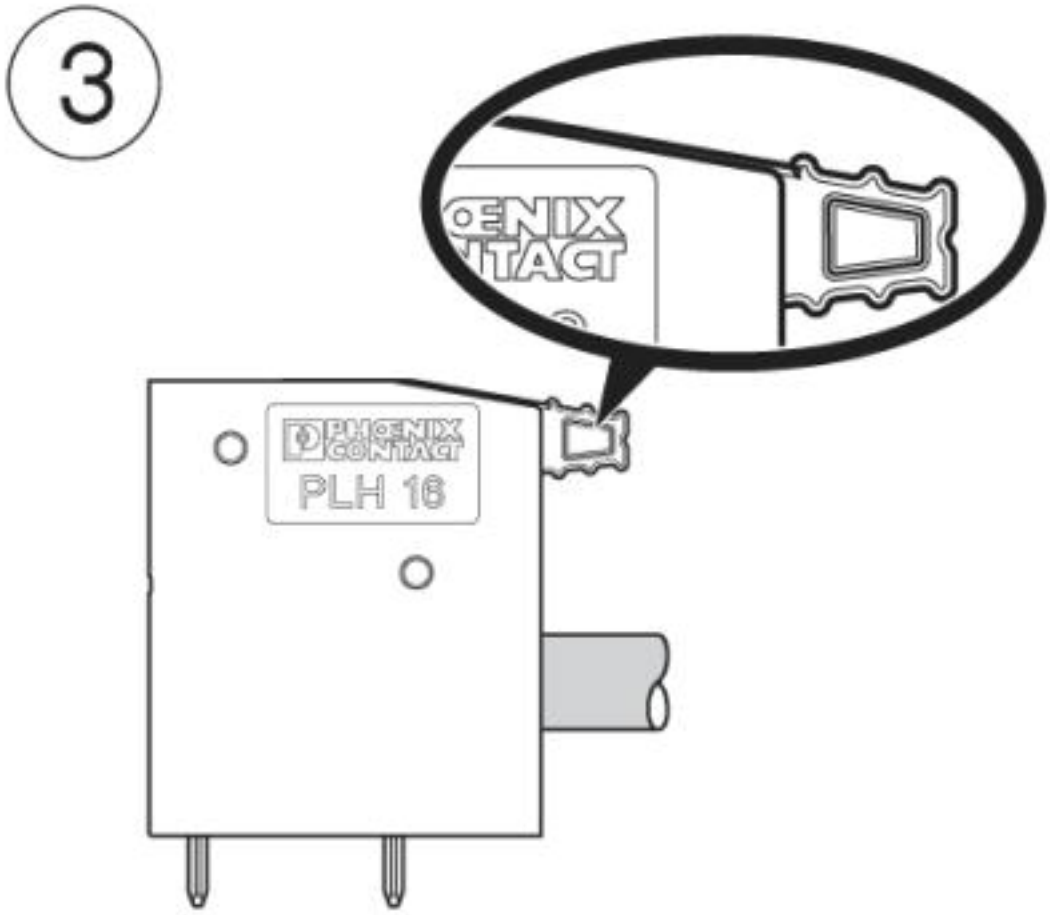
Diagram



Type: PLH 16/...-10
Tested in accordance with DIN EN 60512-5-2:2003-01
No. of positions: 5
Conductor cross section: 16 mm² (exclusively for solid conductors)

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Functional drawing



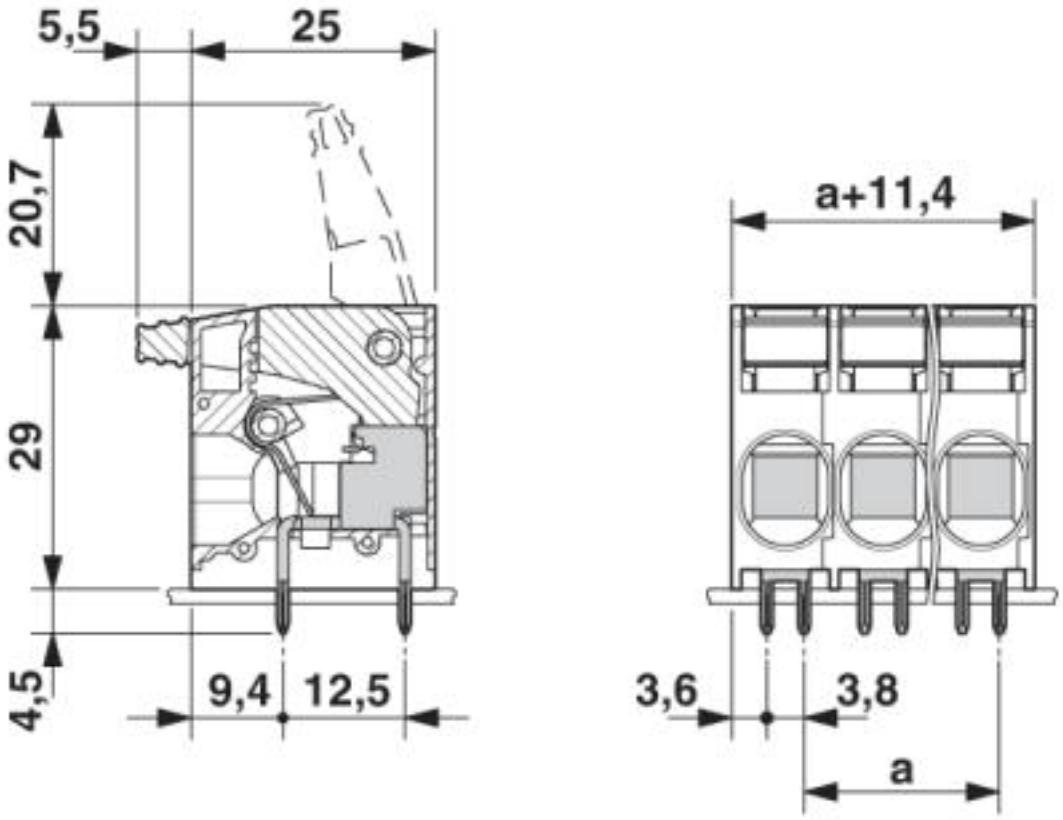
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Functional drawing



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Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27261100
eCl@ss 6.0	27261100
eCl@ss 7.0	27440401
eCl@ss 8.0	27440401
eCl@ss 9.0	27440401

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002643
ETIM 5.0	EC002643

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Classifications

ETIM

ETIM 6.0	EC002643
ETIM 7.0	EC002643

UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121432

Approvals

Approvals

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UL Recognized / IECEE CB Scheme / VDE Zeichengenehmigung / EAC

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20110524

	B	C	D
Nominal voltage UN	300 V	150 V	300 V
Nominal current IN	51 A	51 A	10 A
mm²/AWG/kcmil	18-6	18-6	18-6

IECEE CB Scheme	http://www.iecee.org/	DE1-58718

Nominal voltage UN	400 V
Nominal current IN	76 A
mm²/AWG/kcmil	0.75-16

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Approvals

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40041250

Nominal voltage UN	400 V
Nominal current IN	76 A
mm²/AWG/kcmil	0.75-16

EAC		B.01742

Accessories

Accessories

Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

Crimping pliers - CRIMPFOX 16 S - 1207983



Crimping pliers for ferrules up to 16 mm²

Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

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Accessories

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