

## Feed-through terminal block - UT 6 - 3044131

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Feed-through terminal block, Connection method: Screw connection, Cross section: 0.2 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 24 - 8, Width: 8.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Why buy this product

- ✓ The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- ✓ As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- ✓ Optimum screwdriver guidance through closed screw shafts
- ✓ The multi-conductor connection offers maximum flexibility and wiring density
- ✓ Tested for railway applications
- ✓ The cable entry funnel enables the use of conductors with ferrules and plastic collars within the nominal cross section



### Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	 4 017918 960438
Weight per Piece (excluding packing)	13.95 g
Custom tariff number	85369010
Country of origin	Germany

### Technical data

#### General

Number of levels	1
Number of connections	2
Nominal cross section	6 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry

# Feed-through terminal block - UT 6 - 3044131

## Technical data

### General

	Mechanical engineering
	Plant engineering
	Process industry
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	57 A (with 10 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	41 A
Nominal voltage U <sub>N</sub>	1000 V
Open side panel	ja
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.2 mm <sup>2</sup> / 0.2 kg
	6 mm <sup>2</sup> / 1.4 kg
	10 mm <sup>2</sup> / 2 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.2 mm <sup>2</sup>
Tractive force setpoint	10 N
Conductor cross section tensile test	6 mm <sup>2</sup>
Tractive force setpoint	80 N
Conductor cross section tensile test	10 mm <sup>2</sup>
Tractive force setpoint	90 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	5 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed

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## Technical data

### General

Conductor cross section short circuit testing	6 mm <sup>2</sup>
Short-time current	0.72 kA
Conductor cross section short circuit testing	10 mm <sup>2</sup>
Short-time current	1.2 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, body mounted
Test frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
ASD level	1.857 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C

### Dimensions

Width	8.2 mm
End cover width	2.2 mm
Length	47.7 mm
Height NS 35/7,5	47.5 mm
Height NS 35/15	55 mm

### Connection data

Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	8

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## Technical data

### Connection data

Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	10 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	8
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm <sup>2</sup>
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	4 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm <sup>2</sup>
Connection in acc. with standard	IEC/EN 60079-7
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	6 mm <sup>2</sup>
Stripping length	10 mm
Internal cylindrical gage	A5
Screw thread	M4
Tightening torque, min	1.5 Nm
Tightening torque max	1.8 Nm

### Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V0

## Classifications

eCl@ss

eCl@ss 4.0	27141120
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# Feed-through terminal block - UT 6 - 3044131

## Classifications

### eCl@ss

eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

### ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

## Approvals

### Approvals

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#### Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / GL / RS / IECB Scheme / DNV / EAC / EAC / cULus Recognized

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#### Ex Approvals

IECEX / ATEX / UL Recognized / cUL Recognized / EAC Ex / cULus Recognized

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#### Approvals submitted

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### Approval details

# Feed-through terminal block - UT 6 - 3044131

## Approvals

CSA		
	B	C
mm <sup>2</sup> /AWG/kcmil	24-8	24-8
Nominal current I <sub>N</sub>	50 A	50 A
Nominal voltage U <sub>N</sub>	600 V	600 V

UL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	24-8	24-8
Nominal current I <sub>N</sub>	50 A	50 A
Nominal voltage U <sub>N</sub>	600 V	600 V

VDE Gutachten mit Fertigungsüberwachung	
mm <sup>2</sup> /AWG/kcmil	0.2-6
Nominal voltage U <sub>N</sub>	800 V

cUL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	24-8	24-8
Nominal current I <sub>N</sub>	50 A	50 A
Nominal voltage U <sub>N</sub>	600 V	600 V

LR

GL

RS

# Feed-through terminal block - UT 6 - 3044131

## Approvals

IECEE CB Scheme	
mm <sup>2</sup> /AWG/kcmil	0.2-6
Nominal voltage UN	800 V

DNV

EAC

EAC

cULus Recognized

## Accessories

### Accessories

#### DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119



DIN rail 35 mm (NS 35)

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### Accessories

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DIN rail - NS 35/ 7,5 WH UNPERF 2000MM - 1204122



DIN rail 35 mm (NS 35)

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DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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### Accessories

End cap - NS 35/ 7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5



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



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

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



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

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



DIN rail 35 mm (NS 35)

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DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

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## Feed-through terminal block - UT 6 - 3044131

### Accessories

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



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

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



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

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



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

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End cap - NS 35/15 CAP - 1206573



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

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## Feed-through terminal block - UT 6 - 3044131

### Accessories

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

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### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

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End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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### End cover

End cover - D-UT 2,5/10 - 3047028



End cover, Length: 47.7 mm, Width: 2.2 mm, Height: 48.4 mm, Color: gray

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### Jumper

## Feed-through terminal block - UT 6 - 3044131

### Accessories

Plug-in bridge - FBS 2-8 - 3030284



Plug-in bridge, Length: 29.6 mm, Width: 14.7 mm, Number of positions: 2, Color: red

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Plug-in bridge - FBS 3-8 - 3030297



Plug-in bridge, Number of positions: 3, Color: red

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Plug-in bridge - FBS 4-8 - 3030307



Plug-in bridge, Number of positions: 4, Color: red

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Plug-in bridge - FBS 5-8 - 3030310



Plug-in bridge, Number of positions: 5, Color: red

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Plug-in bridge - FBS 6-8 - 3032470



Plug-in bridge, Number of positions: 6, Color: red

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## Feed-through terminal block - UT 6 - 3044131

### Accessories

Plug-in bridge - FBS 10-8 - 3030323



Plug-in bridge, Number of positions: 10, Color: red

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Plug-in bridge - FBSR 2-8 - 3033808



Plug-in bridge, Number of positions: 2, Color: red

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Plug-in bridge - FBSR 3-8 - 3001597



Plug-in bridge, Number of positions: 3, Color: red

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Plug-in bridge - FBSR 4-8 - 3000585



Plug-in bridge, Number of positions: 4, Color: red

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Plug-in bridge - FBSR 5-8 - 3033809



Plug-in bridge, Number of positions: 5, Color: red

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## Feed-through terminal block - UT 6 - 3044131

### Accessories

Plug-in bridge - FBSR 10-8 - 3001599



Plug-in bridge, Number of positions: 10, Color: red

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Plug-in bridge - FBS 2-8 CT - 3033830



Plug-in bridge, Length: 29.6 mm, Width: 14.7 mm, Number of positions: 2, Color: orange

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Plug-in bridge - FBS 3-8 CT - 3033831



Plug-in bridge, Number of positions: 3, Color: orange

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Plug-in bridge - FBS 4-8 CT - 3033832



Plug-in bridge, Number of positions: 4, Color: orange

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Plug-in bridge - FBS 10-8 CT - 3033833



Plug-in bridge, Number of positions: 10, Color: orange

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Labeled terminal marker

## Feed-through terminal block - UT 6 - 3044131

### Accessories

#### Zack marker strip - ZB 8 CUS - 0825011



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

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#### Marker for terminal blocks - UC-TM 8 CUS - 0824597



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: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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#### Marker for terminal blocks - UCT-TM 8 CUS - 0829616



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: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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#### Zack marker strip - ZB 8,LGS:FORTL.ZAHLEN - 1052015



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

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#### Zack marker strip - ZB 8,QR:FORTL.ZAHLEN - 1052028



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

## Feed-through terminal block - UT 6 - 3044131

### Accessories

Marker for terminal blocks - ZB 8,LGS:L1-N,PE - 1052413



Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

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### Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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### Partition plate

Partition plate - ATP-UT - 3047167



Partition plate, Length: 50 mm, Width: 2.2 mm, Height: 48 mm, Color: gray

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Spacer plate - DP PS-8 - 3036741



Spacer plate, Length: 22.4 mm, Width: 8.2 mm, Height: 29 mm, Number of positions: 1, Color: red

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### Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for easy planning of Phoenix Contact on DIN rails together with the integrated TRABTECH-select software module for planning comprehensive surge protection concepts.



## Feed-through terminal block - UT 6 - 3044131

### Accessories

Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multi-lingual software for terminal strip project planning. A marking module allows professional labeling of markers and labels for marking terminal blocks, conductors, cables and devices. The additionally integrated software module TRABTECH-select for planning comprehensive surge protection concepts.

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### Reducing bridge

Reducing bridge - RB UT 6-ST(2,5/4) - 3047264



Reducing bridge, Number of positions: 2, Color: red

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Reducing bridge - RB UT 6-(2,5/4) - 3047251



Reducing bridge, Number of positions: 2, Color: red

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Reducing bridge - RB 16-6 - 3047072



Reducing bridge, Number of positions: 2, Color: red

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### Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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### Short-circuit connector

## Feed-through terminal block - UT 6 - 3044131

### Accessories

Short-circuit connector - FBSRH 2-8 - 3033802



Short-circuit connector, Number of positions: 2, Color: red

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Short-circuit connector - FBSRH 3-8 - 3033803



Short-circuit connector, Number of positions: 3, Color: red

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Short-circuit connector - FBSRH 4-8 - 3033804



Short-circuit connector, Number of positions: 4, Color: red

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### Terminal marking

Zack marker strip - ZB 8:UNBEDRUCKT - 1052002



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

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Marker for terminal blocks - UC-TM 8 - 0818072



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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## Feed-through terminal block - UT 6 - 3044131

### Accessories

Marker for terminal blocks - UCT-TM 8 - 0828740



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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### Test plug terminal block

Test plugs - PS-8 - 3031005



Test plugs, Color: red

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Test adapter - PS-8/2,3MM RD - 3048564



Test adapter, Color: red

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### Test socket

Test adapter - PAI-4-N GY - 3032871



4 mm test adapter, for terminal blocks with 5.2 mm, 6.2 mm and 8.2 mm pitch

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Test adapter - PAI-4-FIX BU - 3032729



4 mm test adapter, for terminal blocks with 8.2 mm pitch

## Feed-through terminal block - UT 6 - 3044131

### Accessories

Test adapter - PAI-4-FIX OG - 3034455



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX YE - 3032745



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX RD - 3032732



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX GN - 3032758



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX BK - 3032774



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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## Feed-through terminal block - UT 6 - 3044131

### Accessories

Test adapter - PAI-4-FIX GY - 3032790



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX VT - 3032761



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX BN - 3032787



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAIS-4-FIX GY - 3032791



Test adapter, Color: gray

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Test adapter - PAIS-4-FIX BK - 3032792



Test adapter, Color: black

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# Feed-through terminal block - UT 6 - 3044131

## Accessories

Test adapter - PAIS-4-FIX RD - 3032793



Test adapter, Color: red

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## Warning label printed

Warning label - WS UT 6 - 3047345



Warning sign for UT terminal blocks

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## Drawings

Circuit diagram

