

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Ground terminal, number of connections: 2, connection method: Screw connection, Rated cross section: 16 mm², cross section: 1.5 mm² - 25 mm², mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Your advantages

- Tested for railway applications

Commercial data

Item number	3044212
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	BE01
Product key	BE1121
Catalog page	Page 185 (C-1-2019)
GTIN	4017918977573
Weight per piece (including packing)	47.128 g
Weight per piece (excluding packing)	46.85 g
Customs tariff number	85369010
Country of origin	TR

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



Technical data

Product properties

Product type	Ground terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	2
Number of rows	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	2.43 W

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	16 mm ²
Cross section AWG	(converted acc. to IEC)

Level 1 above 1 below 1

Screw thread	M5
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	2.5 ... 3 Nm
Stripping length	14 mm
Internal cylindrical gage	A7
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	1.5 mm ² ... 25 mm ²
Cross section AWG	14 ... 4 (converted acc. to IEC)
Conductor cross section flexible	1.5 mm ² ... 25 mm ²
Conductor cross section, flexible [AWG]	14 ... 4 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm ² ... 16 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm ² ... 16 mm ²
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.
Nominal cross section	16 mm ²

Ex data

Rated data (ATEX/IECEx)

UT 16-PE - Ground terminal



3044212

<https://www.phoenixcontact.com/us/products/3044212>

Identification	Ex II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3047206 D-UT 16
	1205066 SZS 1,0X4,0 VDE
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
output	(Permanent)

Ex connection data General

Torque range	2.5 Nm ... 3 Nm
Nominal cross section	16 mm ²
Rated cross section AWG	6
Connection capacity rigid	1.5 mm ² ... 25 mm ²
Connection capacity AWG	16 ... 4
Connection capacity flexible	1.5 mm ² ... 16 mm ²
Connection capacity AWG	16 ... 6

Dimensions

Width	12.2 mm
End cover width	2.2 mm
Height	55.5 mm
Depth	54.4 mm
Depth on NS 35/7,5	55 mm
Depth on NS 35/15	62.5 mm

Material specifications

Color	green-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))	130 °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)	28 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

UT 16-PE - Ground terminal



3044212

<https://www.phoenixcontact.com/us/products/3044212>

Mechanical data

Open side panel	Yes
-----------------	-----

Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-2
----------------------------------	---------------

Mounting

Mounting type	NS 35/7,5
	NS 35/15

UT 16-PE - Ground terminal

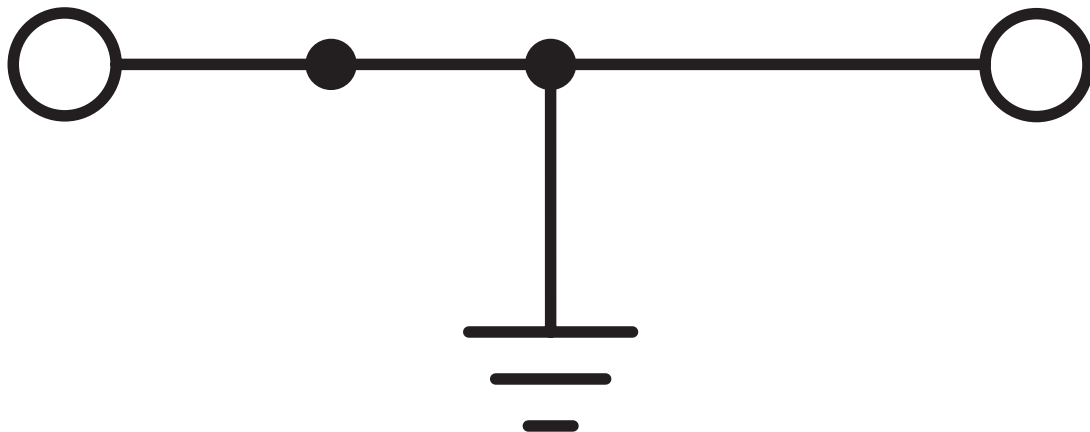
3044212

<https://www.phoenixcontact.com/us/products/3044212>



Drawings

Circuit diagram



UT 16-PE - Ground terminal



3044212

<https://www.phoenixcontact.com/us/products/3044212>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3044212>

DNV

Approval ID: TAE00001S9



CSA

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	-	-	16 - 4	-
Use group C	-	-	16 - 4	-



IECEE CB Scheme

Approval ID: DE1-63048



cULus Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	-	-	16 - 4	-
Use group C	-	-	16 - 4	-
Use group D	-	-	16 - 4	-



RS

Approval ID: 22.44.01.00083.250



VDE Zeichengenehmigung

Approval ID: 40020167

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	76 A	-	1.5 - 16



ATEX

Approval ID: KEMA04ATEX2048U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only flexible conductors	-	-	-	1.5 - 16

UT 16-PE - Ground terminal



3044212

<https://www.phoenixcontact.com/us/products/3044212>

Only rigid conductors	-	-	-	1.5 - 25
-----------------------	---	---	---	----------



cUL Recognized
Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	16 - 4	-



EAC Ex
Approval ID: RU C-DE.HA91.B.00066



IECEx
Approval ID: IECEx KEM 06.0027U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only flexible conductors	-	-	-	1.5 - 16
Only rigid conductors	-	-	-	1.5 - 25



UL Recognized
Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	16 - 4	-



CCC
Approval ID: 2020322313000622



UKCA-EX
Approval ID: DEKRA 21UKEX0304U

cULus Recognized

UT 16-PE - Ground terminal



3044212

<https://www.phoenixcontact.com/us/products/3044212>

Classifications

ECLASS

ECLASS-11.0	27141141
ECLASS-13.0	27250103

ETIM

ETIM 9.0	EC000901
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

UT 16-PE - Ground terminal



3044212

<https://www.phoenixcontact.com/us/products/3044212>

Environmental product compliance

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

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



Accessories

i Note: Applying some accessories below might limit this product.

FBS 2-12 - Plug-in bridge

3005950

<https://www.phoenixcontact.com/us/products/3005950>



Plug-in bridge, pitch: 12 mm, number of positions: 2, color: red

i Max. current carrying capacity: 76 A

D-UT 16 - End cover

3047206

<https://www.phoenixcontact.com/us/products/3047206>



End cover, depth: 47.3 mm, width: 2.2 mm, height: 52.8 mm, color: gray

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



TPNS-UK - Partition plate

0706647

<https://www.phoenixcontact.com/us/products/0706647>

Partition plate, depth: 70 mm, width: 2 mm, height: 80 mm, color: gray

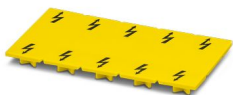


WS UT 16 - Warning label

3047374

<https://www.phoenixcontact.com/us/products/3047374>

Warning sign for UT terminal blocks



UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



LPS-12/E - Service connector

3270600

<https://www.phoenixcontact.com/us/products/3270600>



Service connector, cross section: 0.14 mm²- 4 mm², color: red

LPS-12 - Service connector

3270601

<https://www.phoenixcontact.com/us/products/3270601>



Service connector, cross section: 0.14 mm²- 4 mm², color: red

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



LPO 16/E - Pick-up plug

3270531

<https://www.phoenixcontact.com/us/products/3270531>



Pick-up plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm²- 4 mm², color: gray

LPO 16 - Pick-up plug

3270532

<https://www.phoenixcontact.com/us/products/3270532>



Pick-up plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm²- 4 mm², color: gray

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



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

0801733

<https://www.phoenixcontact.com/us/products/0801733>



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

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

0801681

<https://www.phoenixcontact.com/us/products/0801681>



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

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



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

1204119

<https://www.phoenixcontact.com/us/products/1204119>



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

NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

<https://www.phoenixcontact.com/us/products/1204122>



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

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



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

0801704

<https://www.phoenixcontact.com/us/products/0801704>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

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

1206421

<https://www.phoenixcontact.com/us/products/1206421>



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

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



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

1206434

<https://www.phoenixcontact.com/us/products/1206434>



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

NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

<https://www.phoenixcontact.com/us/products/0801762>



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

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



NS 35/ 7,5 CAP - End cap

1206560

<https://www.phoenixcontact.com/us/products/1206560>

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



NS 35/15 PERF 2000MM - DIN rail perforated

1201730

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



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

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



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

1201714

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



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

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

0806602

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



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

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



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

1204135

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



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

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

1201756

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



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

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



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

1206599

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



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

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

1206586

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



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

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



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

1201895

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



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

NS 35/15 CAP - End cap

1206573

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

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



UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



NS 35/15-2,3 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201798

<https://www.phoenixcontact.com/us/products/1201798>

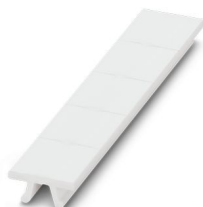


DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver

ZB 12:UNPRINTED - Zack marker strip

0812120

<https://www.phoenixcontact.com/us/products/0812120>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5

UT 16-PE - Ground terminal

3044212

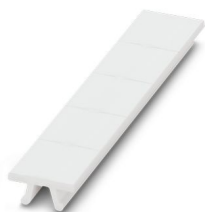
<https://www.phoenixcontact.com/us/products/3044212>



ZB 12 CUS - Zack marker strip

0824942

<https://www.phoenixcontact.com/us/products/0824942>

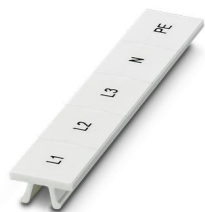


Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

ZB 12,LGS:L1-N,PE - Zack marker strip

0812146

<https://www.phoenixcontact.com/us/products/0812146>



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



UC-TM 12 - Marker for terminal blocks

0819194

<https://www.phoenixcontact.com/us/products/0819194>



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: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

UC-TM 12 CUS - Marker for terminal blocks

0824613

<https://www.phoenixcontact.com/us/products/0824613>



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: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



UCT-TM 12 - Marker for terminal blocks

0829144

<https://www.phoenixcontact.com/us/products/0829144>



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: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

UCT-TM 12 CUS - Marker for terminal blocks

0829630

<https://www.phoenixcontact.com/us/products/0829630>



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: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



X-PEN 0,35 - Marker pen

0811228

<https://www.phoenixcontact.com/us/products/0811228>



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

SZS 1,0X6,5 VDE - Screwdriver

1205079

<https://www.phoenixcontact.com/us/products/1205079>



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 6.5 x 150 mm, 2-component grip, with non-slip grip

UT 16-PE - Ground terminal

3044212

<https://www.phoenixcontact.com/us/products/3044212>



PROJECT COMPLETE - Software

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

Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com