

# UKH 70-PE/S - Ground terminal



3213141

<https://www.phoenixcontact.com/ie/products/3213141>

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Ground terminal, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 70 mm<sup>2</sup>, cross section: 16 mm<sup>2</sup> - 95 mm<sup>2</sup>, mounting method: PE foot with mounting screw, M6, mounting type: NS 35/7,5, NS 35/15, NS 35/15-2,3, NS 32, color: green-yellow

## Your advantages

- Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base
- Low contact resistance of the contact surface due to ribbing
- Screw locking by means of spring-loaded elements in the clamping part

## Commercial data

Item number	3213141
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	BE
Product key	BE1321
Catalog page	Page 191 (C-1-2019)
GTIN	4046356783446
Weight per piece (including packing)	204.82 g
Weight per piece (excluding packing)	204.82 g
Customs tariff number	85369010
Country of origin	CN

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## Technical data

### Product properties

Product type	Ground terminal block
Number of positions	1
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	6.27 W

### Connection data

Number of connections per level	2
Nominal cross section	70 mm <sup>2</sup>

### Level 1 above 1 below 1

Screw thread	M8
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	8 ... 10 Nm
Stripping length	24 mm
Internal cylindrical gage	A11
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	16 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Cross section AWG	4 ... 3/0 (converted acc. to IEC)
Conductor cross section flexible	25 mm <sup>2</sup> ... 70 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	2 ... 2/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	16 mm <sup>2</sup> ... 70 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	16 mm <sup>2</sup> ... 70 mm <sup>2</sup>
Nominal cross section	70 mm <sup>2</sup>

### Ex data

#### Rated data (ATEX/IECEx)

Identification	⊕ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1201934 VDE-ISS 6 1201662 E/AL-NS 35
Torque range for PE foot output	6 Nm ... 8 Nm (Permanent)

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## Ex connection data General

Torque range	8 Nm ... 10 Nm
Nominal cross section	70 mm <sup>2</sup>
Rated cross section AWG	2/0
Connection capacity rigid	16 mm <sup>2</sup> ... 70 mm <sup>2</sup>
Connection capacity AWG	4 ... 2,0
Connection capacity flexible	25 mm <sup>2</sup> ... 70 mm <sup>2</sup>
Connection capacity AWG	3 ... 2/0

## Dimensions

Width	20.3 mm
Height	70.5 mm
Depth on NS 35/15	87.5 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

### General

Terminal block mounting	6 Nm ... 8 Nm (PE foot with mounting screw, M6)
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### Mechanical data

Open side panel	No
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## Environmental and real-life conditions

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 1, class B, body mounted
Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz

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ASD level	1.857 (m/s <sup>2</sup> )/Hz
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

## Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

## Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see 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 (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

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

Mounting type	NS 35/7,5
	NS 35/15
	NS 35/15-2,3
	NS 32
Terminal block mounting	6 Nm ... 8 Nm (PE foot with mounting screw, M6)

# UKH 70-PE/S - Ground terminal

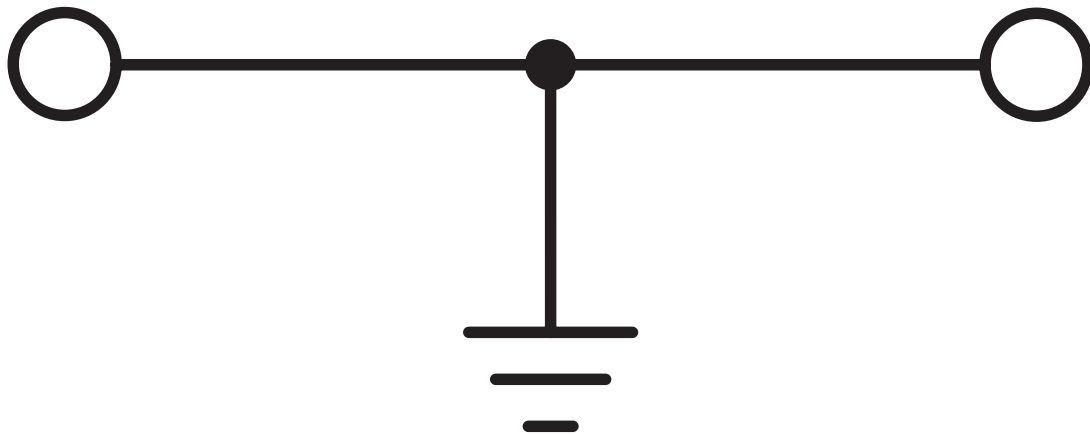
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## Drawings

Circuit diagram



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## Approvals


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 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	-	-	6 - 3/0	-
Use group C	-	-	6 - 3/0	-

 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	600 V	-	6 - 3/0	-
Use group C	600 V	-	6 - 3/0	-

 <b>LR</b> Approval ID: LR2420186TA				
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 <b>IECEx</b> Approval ID: IECEx SEV12.0008U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Mounting on NS 32	690 V	180 A	-	25 - 70
Mounting on NS 35	880 V	180 A	-	25 - 70

 <b>ATEX</b> Approval ID: SEV12ATEX0168U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	-	-	-	25 - 70

 <b>CCC</b> Approval ID: 2020322313000623				
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 <b>EAC Ex</b> Approval ID: KZ 7500525010101950				
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## Classifications

### ECLASS

ECLASS-11.0	27141141
ECLASS-13.0	27250103

### ETIM

ETIM 9.0	EC000901
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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