

XT 2,5/1P-PE - Protective conductor terminal block



1544638

<https://www.phoenixcontact.com/us/products/1544638>

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Protective conductor terminal block, number of connections: 2, number of positions: 1, connection method: Push-X/plug-in connection, Rated cross section: 2.5 mm², cross section: 0.34 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Your advantages

- The CLIPLINE complete COMBI terminal block ensures greater efficiency in control cabinet building through cable assemblies
- In addition to the classic features of the CLIPLINE complete system, the XT-COMBI terminal blocks are characterized by the modern XT connection technology and the option of plug-in capability
- The XT connection technology enables conductors to be connected directly and without tools, even without the addition of ferrules
- The COMBI plug-in zone is universal; all existing COMBI connectors can be used to establish a connection with it

Push-X Technology 
Designed by Phoenix Contact

Commercial data

Item number	1544638
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE25
Product key	BE2542
GTIN	4067923018020
Weight per piece (including packing)	7.83 g
Weight per piece (excluding packing)	7.83 g
Customs tariff number	85369010
Country of origin	CN

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Technical data

Product properties

Product type	Ground terminal block
Product family	XT
Area of application	Railway industry
	Machine building
	Plant engineering
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	0.77 W

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	2.5 mm ²
Connection method	Push-X/plug-in connection
Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A3
	B3
Connection in acc. with standard	IEC 61984
Conductor cross-section rigid	0.34 mm ² ... 4 mm ²
Cross section AWG	20 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.5 mm ² ... 4 mm ²
Conductor cross-section, flexible [AWG]	20 ... 12 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm ² ... 4 mm ²
Conductor cross-section, flexible [AWG] ultrasound-compressed	20 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Nominal cross section	2.5 mm ²

Dimensions

Width	5.2 mm
Height	48.6 mm
Depth	35.3 mm
Depth on NS 35/7,5	36.8 mm

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Depth on NS 35/15	44.3 mm
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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
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
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	Yes
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Environmental and real-life conditions

Oscillation/broadband noise

Specification	EN 50155:2021-07
Spectrum	Long life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}/\text{Hz}$
Acceleration	5.72 m/s^2
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2022-06
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 ... 100 °C
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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 61984
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Mounting

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

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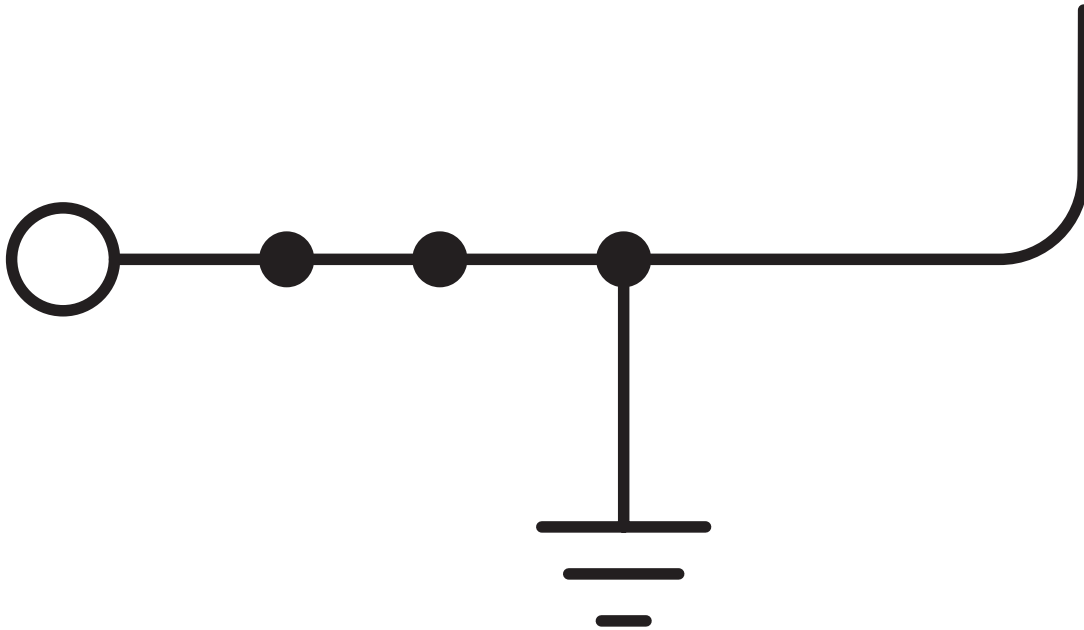


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Drawings

Circuit diagram



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Approvals

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 CSA Approval ID: 158887				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	-	-	20 - 12	-
C	-	-	20 - 12	-
D	-	-	20 - 12	-

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	-	-	20 - 12	-
C	-	-	20 - 12	-
F	-	-	20 - 12	-
D	-	-	20 - 12	-

DNV Approval ID: TAE000051K				
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Classifications

ECLASS

ECLASS-13.0	27250103
ECLASS-15.0	27250103

ETIM

ETIM 10.0	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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