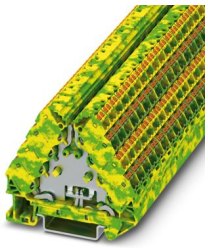
PTRVB 4-PE - Protective conductor terminal block

1070018

https://www.phoenixcontact.com/us/products/1070018

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.



Protective conductor terminal block, number of connections: 16, number of positions: 2, connection method: Push-in connection, 1st, 2nd, 3rd and 4th level, Rated cross section: 1.5 mm^2, cross section: 0.14 mm^2 - 2.5 mm^2, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Commercial data

Item number	1070018
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE62
Product key	BE6211
GTIN	4055626747835
Weight per piece (including packing)	23.23 g
Weight per piece (excluding packing)	21.236 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Product properties

Product type	Potential distributor
Number of positions	2
Number of connections	16
Number of rows	4
Potentials	1

Insulation characteristics

Overvoltage category	III

Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Nominal cross section	1.5 mm²

1st, 2nd, 3rd and 4th level

Connection method	Push-in connection
Stripping length	8 mm ... 10 mm
Connection in acc. with standard	IEC 60947-7-2
Conductor cross-section rigid	0.14 mm² ... 2.5 mm²
Cross section AWG	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm² ... 1.5 mm²
Conductor cross-section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² ... 1.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm² ... 1.5 mm²
Nominal cross section	1.5 mm²

1st, 2nd, 3rd and 4th level Connection cross sections directly pluggable

Conductor cross-section rigid	0.34 mm² ... 2.5 mm²
Conductor cross-section, rigid [AWG]	22 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² ... 1.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.34 mm² ... 1.5 mm²

Dimensions

Width	8.3 mm
Height	64 mm
Depth on NS 35/7,5	55.5 mm
Depth on NS 35/15	63 mm

Material specifications

Color	green-yellow

Color of connection elements	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))	125 °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)	27,5 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

Mechanical data

Open side panel	Yes

Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
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.)
Result	Test passed

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

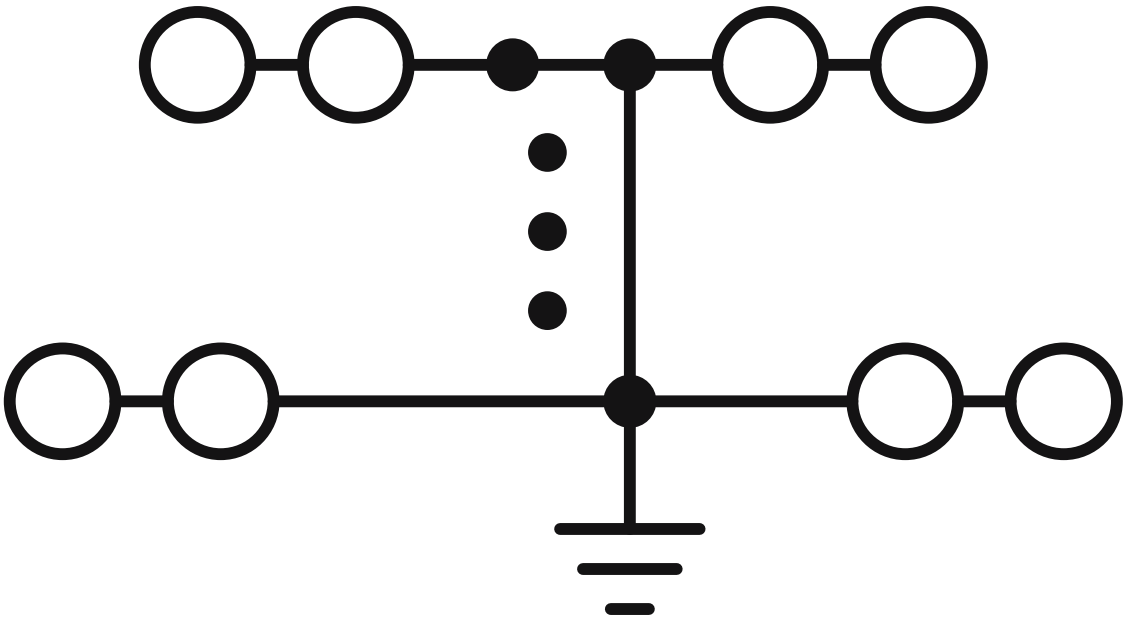
Connection in acc. with standard	IEC 60947-7-2

Mounting

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

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1070018

CSA
Approval ID: 158887

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	-	-	26 - 14	-
C				
	-	-	26 - 14	-
D				
	-	-	26 - 14	-

EAC
Approval ID: RU C-DE.BL08.B.00682

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	-	-	26 - 14	-
C				
	-	-	26 - 14	-
F				
	-	-	26 - 14	-
D				
	-	-	26 - 14	-

Classifications

ECLASS

ECLASS-13.0	27250105
ECLASS-15.0	27250105

ETIM

ETIM 9.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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%

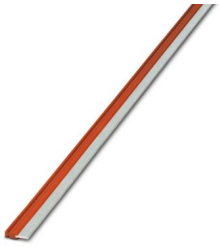
Accessories

Note: Applying some accessories below might limit this product.

FBST 500-PLC RD - Continuous plug-in bridge

2966786

https://www.phoenixcontact.com/us/products/2966786



Continuous plug-in bridge, length: 500 mm, color: red

Max. current carrying capacity: 32 A

FBST 500-PLC GY - Continuous plug-in bridge

2966838

https://www.phoenixcontact.com/us/products/2966838

Continuous plug-in bridge, length: 500 mm, color: gray

Max. current carrying capacity: 32 A

FBST 500-PLC BN - Continuous plug-in bridge

2967976

https://www.phoenixcontact.com/us/products/2967976

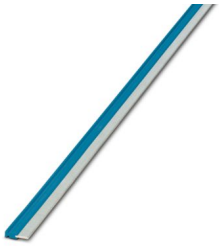
Continuous plug-in bridge, length: 500 mm, color: brown

Max. current carrying capacity: 32 A

FBST 500-PLC BU - Continuous plug-in bridge

2966692

https://www.phoenixcontact.com/us/products/2966692



Continuous plug-in bridge, length: 500 mm, color: blue

Max. current carrying capacity: 32 A

FBST 50-PLC RD - Single plug-in bridge

1081050

https://www.phoenixcontact.com/us/products/1081050

Single plug-in bridge, length: 50 mm, color: red

Max. current carrying capacity: 32 A

FBST 50-PLC BU - Single plug-in bridge

1081051

https://www.phoenixcontact.com/us/products/1081051

Single plug-in bridge, length: 50 mm, color: blue

Max. current carrying capacity: 32 A

FBST 50-PLC GY - Single plug-in bridge

1081053

https://www.phoenixcontact.com/us/products/1081053

Single plug-in bridge, length: 50 mm, color: gray

Max. current carrying capacity: 32 A

RPS - Reducing plug

0201647

https://www.phoenixcontact.com/us/products/0201647

Reducing plug, number of positions: 1, color: gray

ZB 8,3:UNBEDRUCKT - Zack marker strip

0803444

https://www.phoenixcontact.com/us/products/0803444

Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 8.3 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 8.3 mm

ZB 8,3,LGS:FORTL.ZAHLEN - Zack marker strip

0803480

https://www.phoenixcontact.com/us/products/0803480

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 8.3 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 8.3 mm

ZB 8,3,QR:FORTL.ZAHLEN - Zack marker strip

0803479

https://www.phoenixcontact.com/us/products/0803479

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 8.3 mm, text field height: 10.5 mm, text field width: 8.3 mm

ZB 8,3 CUS - Zack marker strip

8191573

https://www.phoenixcontact.com/us/products/8191573

Zack marker strip, Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, text field height: 8.3 mm, text field width: 10.5 mm

TM-PTRV 4,QR:1-4 - Marker for terminal blocks

0803464

https://www.phoenixcontact.com/us/products/0803464

Marker for terminal blocks, Strip, white, labeled, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 8, text field height: 9.2 mm, text field width: 2.4 mm

TM-PTRV 4,QR:4-1 - Marker for terminal blocks

0803465

https://www.phoenixcontact.com/us/products/0803465

Marker for terminal blocks, Strip, white, labeled, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 8, text field height: 9.2 mm, text field width: 2.4 mm

TM-PTRV 4,QR:A-D - Marker for terminal blocks

0803466

https://www.phoenixcontact.com/us/products/0803466

Marker for terminal blocks, Strip, white, labeled, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 8, text field height: 9.2 mm, text field width: 2.4 mm

TM-PTRV 4,QR:D-A - Marker for terminal blocks

0803467

https://www.phoenixcontact.com/us/products/0803467

Marker for terminal blocks, Strip, white, labeled, mounting type: latching, for terminal block width: 4 mm, Number of individual labels: 8, text field height: 9.2 mm, text field width: 2.4 mm

D-PTRV 4 WH - End cover

3270151

https://www.phoenixcontact.com/us/products/3270151

End cover, depth: 48.9 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH 1-4 - End cover

3270152

https://www.phoenixcontact.com/us/products/3270152

End cover, depth: 48.9 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH 1-4 LGS - End cover

3270234

https://www.phoenixcontact.com/us/products/3270234

End cover, depth: 48.9 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH 4-1 - End cover

3270236

https://www.phoenixcontact.com/us/products/3270236

End cover, depth: 48.9 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH 4-1 LGS - End cover

3270238

https://www.phoenixcontact.com/us/products/3270238

End cover, depth: 48.9 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH A-D - End cover

3270153

https://www.phoenixcontact.com/us/products/3270153

End cover, depth: 48.9 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH A-D LGS - End cover

3270235

https://www.phoenixcontact.com/us/products/3270235

End cover, depth: 48.9 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH D-A - End cover

3270237

https://www.phoenixcontact.com/us/products/3270237

End cover, depth: 48.9 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH D-A LGS - End cover

3270239

https://www.phoenixcontact.com/us/products/3270239

End cover, depth: 48.9 mm, width: 2.2 mm, height: 63.6 mm, color: white

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-colored

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-colored

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-colored

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-colored

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-colored

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-colored

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

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

CLIPFIX 35 - End bracket

3022218

https://www.phoenixcontact.com/us/products/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

CLIPFIX 35-5 - End bracket

3022276

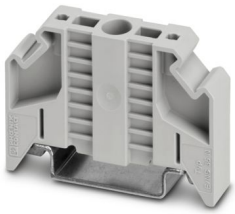
https://www.phoenixcontact.com/us/products/3022276

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

E/NS 35 N - End bracket

0800886

https://www.phoenixcontact.com/us/products/0800886

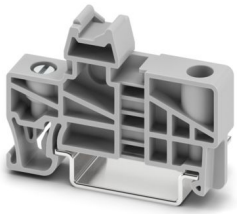


End clamp, width: 9.5 mm, color: gray

E/UK - End bracket

1201442

https://www.phoenixcontact.com/us/products/1201442



End bracket, material: PA, mounting type: NS 35/7,5, NS 35/15, color: gray

E/UK 1 - End bracket

1201413

https://www.phoenixcontact.com/us/products/1201413

End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

MPS-MT - Test plug

0201744

https://www.phoenixcontact.com/us/products/0201744

Test plug, with solder connection up to 1 mm^2 conductor cross-section, number of positions: 1, color: gray

MPS-IH WH - Insulating sleeve

0201663

https://www.phoenixcontact.com/us/products/0201663

Insulating sleeve, color: white

MPS-IH RD - Insulating sleeve

0201676

https://www.phoenixcontact.com/us/products/0201676

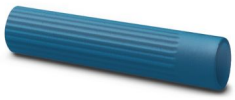
Insulating sleeve, color: red

MPS-IH BU - Insulating sleeve

0201689

https://www.phoenixcontact.com/us/products/0201689

Insulating sleeve, color: blue



MPS-IH YE - Insulating sleeve

0201692

https://www.phoenixcontact.com/us/products/0201692

Insulating sleeve, color: yellow

MPS-IH GN - Insulating sleeve

0201702

https://www.phoenixcontact.com/us/products/0201702

Insulating sleeve, color: green

MPS-IH GY - Insulating sleeve

0201728

https://www.phoenixcontact.com/us/products/0201728

Insulating sleeve, color: gray

MPS-IH BK - Insulating sleeve

0201731

https://www.phoenixcontact.com/us/products/0201731

Insulating sleeve, color: black

ST-BW 0 - Actuation tool

1200135

https://www.phoenixcontact.com/us/products/1200135

Actuation tool, for all 1.5 mm^2 spring cages from PT 1,5/S and FT 1,5/S

CDC-PTRV - Retaining bracket

3270167

https://www.phoenixcontact.com/us/products/3270167

Retaining bracket, via four PTRV single modules, pitch: 8.3 mm, depth: 71.5 mm, width: 35.6 mm, height: 71.5 mm, color: gray

Phoenix Contact 2025 © - 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