

PSM-CABLE-PROFIB/FC - Bus system cable



2744652

<https://www.phoenixcontact.com/in/products/2744652>

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By the meter, Bus system cable, PROFIBUS (12 Mbps), shielded, PVC FR VI/PVC, violet, 2-wire (1X2XAWG22/1), color single wire: red, green, cable length: Free entry (1.0 ... 1000.0 m)

Commercial Data

Item number	2744652
Packing unit	1 m
Minimum order quantity	1 m
Note	Made to Order (non-returnable)
Sales Key	BF1
Product Key	BF1CKC
Catalog Page	Page 442 (C-6-2019)
GTIN	4017918836658
Weight per Piece (including packing)	80.74 g
Weight per Piece (excluding packing)	974 g
Customs tariff number	85444995
Country of origin	DE

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Technical Data

Product properties

Product type	Data cable by the meter
Number of positions	2
Sensor type	PROFIBUS
Shielded	yes

Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC
Transmission medium	Copper

Interfaces

Signal type/category	PROFIBUS, 12 Mbps
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Cable/line

Cable length	Free entry (1.0 ... 1000.0 m)
Cable weight	80 kg/km
UL AWM Style	21694 (60 °C / 600 V)
Wiring standards/regulations	Conductor material DIN EN 13602 Cu-ETP-A...
	Shielding material DIN EN 13602 Cu-ETP-A...-B
Number of positions	2
Shielded	yes
Conductor structure	1X2XAWG22/1
Signal speed	0.81 c
Conductor structure signal line	1x 0.65 mm
AWG signal line	22
Conductor cross section	2x 0.34 mm ²
Wire diameter incl. insulation	2.55 mm
External cable diameter	8 mm ±0.4 mm
Outer sheath, material	PVC FR VI
External sheath, color	violet
Conductor material	Bare Cu wire
Material wire insulation	PE
Single wire, color	red, green
Thickness, insulation	0.95 mm
Thickness, outer sheath	0.9 mm
Overall twist	2 wires, twisted
Optical shield covering	55 %
Insulation resistance	≥ 16 GΩ*km
Loop resistance	≤ 110.00 Ω/km
Cable capacity	approx. 28.5 nF/km (at 1 kHz)

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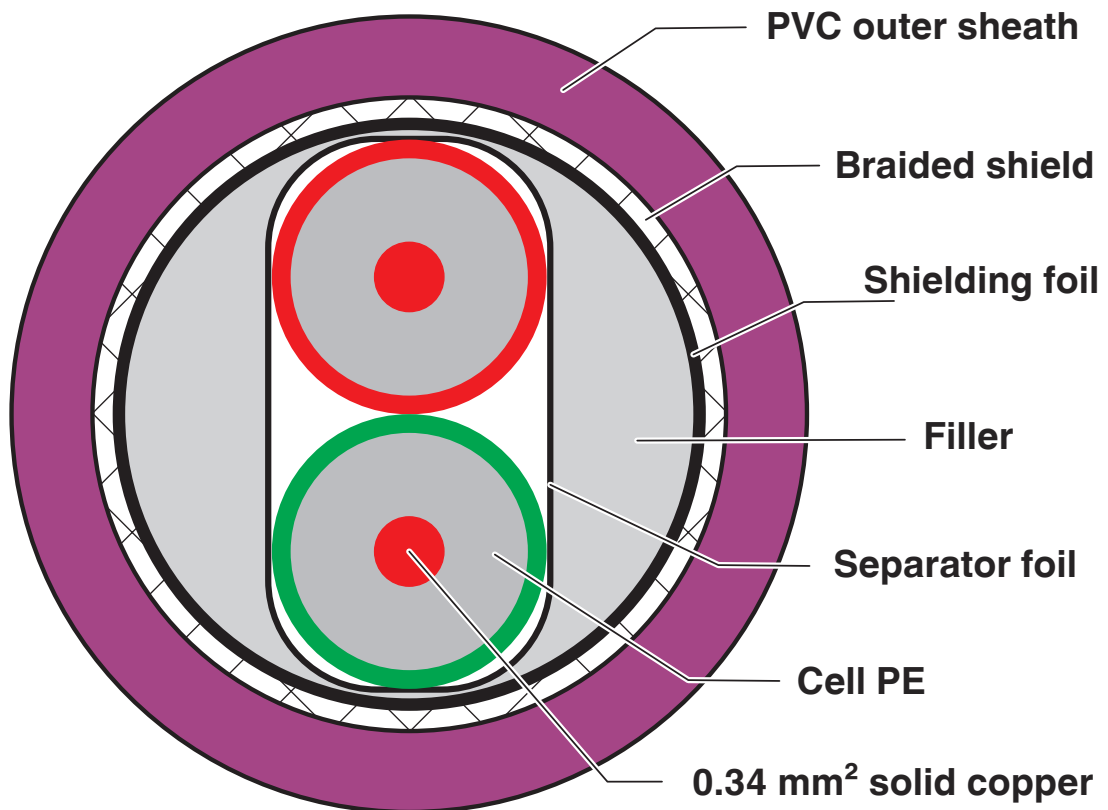
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	≤ 1500 pF/km (asymmetrical: Conductor to ground)
Cable impedance	150 Ω ±10 % (3 ... 20 MHz)
	185 Ω ±10 % (31.25 ... 38.4 kHz)
	270 Ω ±10 % (9.6 kHz)
Test voltage	3600 V DC (3 s)
Smallest bending radius, fixed installation	≥ 150 mm
Tensile strength	≤ 100 N
Shield attenuation	≤ 42 dB/km (at 16 MHz)
	≤ 22 dB (at 4 MHz)
	≤ 4 dB (at 38.4 kHz)
	≤ 2.5 dB (at 9.6 kHz)
Flame resistance	according to IEC 60332-3-24 (Cat. C)
	according to CMG FT4
Resistance to oil	Limited resistance to mineral oils and greases
	according to IEC 60811-2-1, 4 h at 70 °C
Other resistance	Cold bending resistance according to DIN VDE 0473 Part 811-1-4 (after 16 h at -40 °C)
	UV resistant CL3 SUN RES
Ambient temperature (operation)	-40 °C ... 60 °C

Drawings

Schematic diagram



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Approvals



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00385

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Classifications

ECLASS

ECLASS-11.0	27061801
ECLASS-12.0	27061801
ECLASS-13.0	27061801

ETIM

ETIM 8.0	EC003249
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UNSPSC

UNSPSC 21.0	26121600
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Environmental Product Compliance

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

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Accessories

PSM-STRIP-FC/PROFIB - Stripping tool

2744623

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Quick stripping tool for PROFIBUS cable, type Fast Connect



QUICK WIREFOX 6 - Stripping pliers

1204384

<https://www.phoenixcontact.com/in/products/1204384>

Stripping tool for cables with PVC insulation, stripping range: 0.08 to 6 mm², wire cutting up to 6 mm² flexible or 4 mm² rigid



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SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector

2313672

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D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; IDC terminal block connection

SUBCON-PLUS-PROFIB/90/PG/IDC - D-SUB bus connector

2313685

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D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; IDC terminal block connection

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SUBCON-PLUS-PROFIB/90/SC - D-SUB bus connector

2313698

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D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

SUBCON-PLUS-PROFIB/90/PG/SC - D-SUB bus connector

2313708

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D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

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SUBCON-PLUS-PROFIB/SC2 - D-SUB bus connector

2708232

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D-SUB connector, 9-pos., male connector, 35° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

SUBCON-PLUS-PROFIB/PG/SC2 - D-SUB bus connector

2708245

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D-SUB connector, 9-pos., male connector, 35° cable entry, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

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SUBCON-PLUS-PROFIB/AX/SC - D-SUB bus connector

2744380

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D-SUB connector, 9-pos., male connector, axial version with two cable entries, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

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