

## Bus system cable - PSM-CABLE-PROFIB/FC - 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)



### Key Commercial Data

Packing unit	1 M
GTIN	
GTIN	4017918836658

### Technical data

#### Dimensions

Length of cable	Free entry (1.0 ... 1000.0 m)
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#### General data

Rated voltage	48 V AC
	60 V DC
Number of positions	2
Signal type/category	PROFIBUS, 12 Mbps
Alternative short product description	PROFIBUS cable

#### Cable

Product labeling	PHOENIX CONTACT PSM-CABLE PROFIBUS/ES 02YSY(ST)CY-1X2X22 AWG (SHIELDED) (UL) E119100 CMG FT4 75°C or CL3 SUN RES or AWM 21694 600V (Cable printing)
Cable type	PROFIBUS in acc. with IEC 61158, Type A
UL AWM style	21694 (60°C / 600 V)
Signal type/category	PROFIBUS, 12 Mbps
Cable structure	1X2XAWG22/1
Conductor cross section	2x 0.34 mm <sup>2</sup>
AWG signal line	22

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## Technical data

### Cable

Conductor structure signal line	1x 0.65 mm
Core diameter including insulation	2.55 mm
Thickness, insulation	0.95 mm
Wire colors	Red, green
Overall twist	2 wires, twisted
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	55 %
External sheath, color	Violet
Outer sheath thickness	0.9 mm
External cable diameter D	8 mm ±0.4 mm
Smallest bending radius, fixed installation	≥ 150 mm
Tensile strength GRP	≤ 100 N
Cable weight	80 kg/km
Outer sheath, material	PVC FR VI
Material, inner sheath	PVC
Material conductor insulation	PE
Conductor material	Bare Cu wire
Standards/specifications	Conductor material DIN EN 13602 Cu-ETP-A... Shielding material DIN EN 13602 Cu-ETP-A...-B
Insulation resistance	≥ 16 GΩ*km
Loop resistance	≤ 110.00 Ω/km
Cable capacity	approx. 28.5 nF/km (at 1 kHz) ≤ 1500 pF/km (asymmetrical: Conductor to ground)
Signal speed	0.81 c
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)
Cable impedance	150 Ω ±10 % (3 ... 20 MHz) 185 Ω ±10 % (31.25 ... 38.4 kHz) 270 Ω ±10 % (9.6 kHz)
Test voltage, cable	3600 V DC (3 s)
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

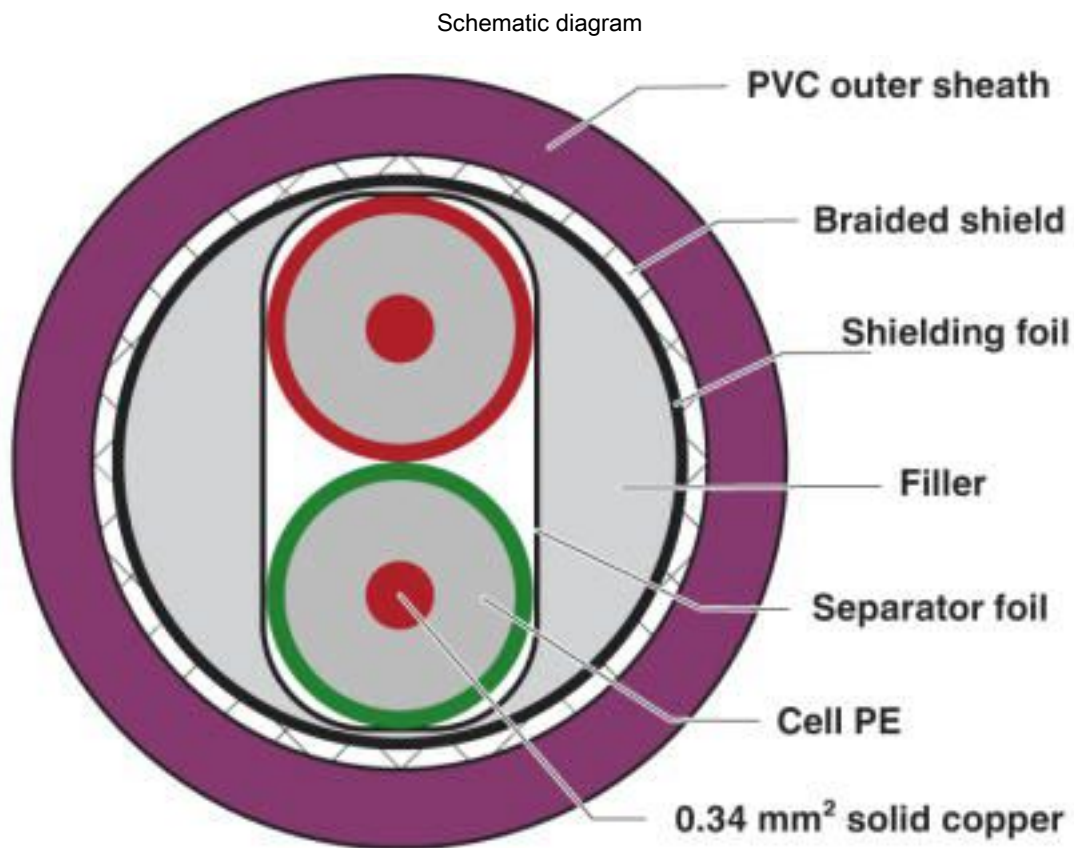
# Bus system cable - PSM-CABLE-PROFIB/FC - 2744652

## Technical data

### Environmental Product Compliance

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

## Drawings



## Classifications

eCl@ss

eCl@ss 10.0.1	27060390
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27062000
eCl@ss 7.0	27062011
eCl@ss 8.0	27062011
eCl@ss 9.0	27061801

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## Classifications

### ETIM

ETIM 2.0	EC001136
ETIM 3.0	EC001136
ETIM 4.0	EC001136
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249

### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008
UNSPSC 18.0	26121604
UNSPSC 19.0	26121604
UNSPSC 20.0	26121604
UNSPSC 21.0	26121604

## Approvals

### Approvals

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Approvals


EAC-RoHS

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Ex Approvals

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### Approval details

EAC-RoHS		RU D- DE.HB35.B.00385
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## Accessories

Accessories

Data plug

## Bus system cable - PSM-CABLE-PROFIB/FC - 2744652

### Accessories

Stripping tool - PSM-STRIP-FC/PROFIB - 2744623

Quick stripping tool for PROFIBUS cable, type Fast Connect



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D-SUB bus connector - SUBCON-PLUS-PROFIB/90/IDC - 2313672



D-SUB connector, 9-pos., male connector, cable entry < 90°, 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

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D-SUB bus connector - SUBCON-PLUS-PROFIB/90/PG/IDC - 2313685



D-SUB connector, 9-pos., male connector, cable entry < 90°, 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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D-SUB bus connector - SUBCON-PLUS-PROFIB/90/SC - 2313698



D-SUB connector, 9-pos., male connector, cable entry < 90°, 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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D-SUB bus connector - SUBCON-PLUS-PROFIB/90/PG/SC - 2313708



D-SUB connector, 9-pos., male connector, cable entry < 90°, 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

## Bus system cable - PSM-CABLE-PROFIB/FC - 2744652

### Accessories

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/SC2 - 2708232



D-SUB connector, 9-pos., male connector, cable entry < 35°, 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

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/PG/SC2 - 2708245



D-SUB connector, 9-pos., male connector, cable entry < 35°, 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

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/AX/SC - 2744380



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

### Stripping tool

#### Stripping pliers - QUICK WIREFOX 6 - 1204384



Stripping tool for cables with PVC insulation, stripping range: 0.08 to 6 mm<sup>2</sup>, wire cutting up to 6 mm<sup>2</sup> flexible or 4 mm<sup>2</sup> rigid

# Mouser Electronics

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