

PSM-CABLE-PROFIB/FC - Bus system cable



2744652

<https://www.phoenixcontact.com/us/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 | BF04 |
| Product key | AF1LEA |
| GTIN | 4017918836658 |
| Weight per piece (including packing) | 80.74 g |
| Weight per piece (excluding packing) | 80.74 g |
| Customs tariff number | 85444995 |
| Country of origin | DE |

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Technical data

Product properties

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

Electrical properties

| | |
|-----------------------|--------------------|
| Nominal voltage U_N | 48 V AC 60 V DC |
| Transmission medium | Copper |
| Transmission speed | ≤ 12 Mbps |

Interfaces

| | |
|----------------------|-------------------|
| Signal type/category | PROFIBUS, 12 Mbps |
|----------------------|-------------------|

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 | 8.00 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 | 0.90 mm |
| Overall twist | 2 wires, twisted |
| Optical shield covering | 55 % |
| Insulation resistance | ≥ 16 G Ω *km |
| Loop resistance | ≤ 110.00 Ω /km |

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| | |
|---|---|
| Cable capacity | approx. 28.5 nF/km (at 1 kHz) ≤ 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 | ≤ 42.00 dB/km (at 16 MHz) ≤ 22.00 dB (at 4 MHz) ≤ 4.00 dB (at 38.4 kHz) ≤ 2.50 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 811-4 (after 16 h at -40 °C)) UV resistant (CL3 SUN RES) |
| Ambient temperature (operation) | -40 °C ... 60 °C |

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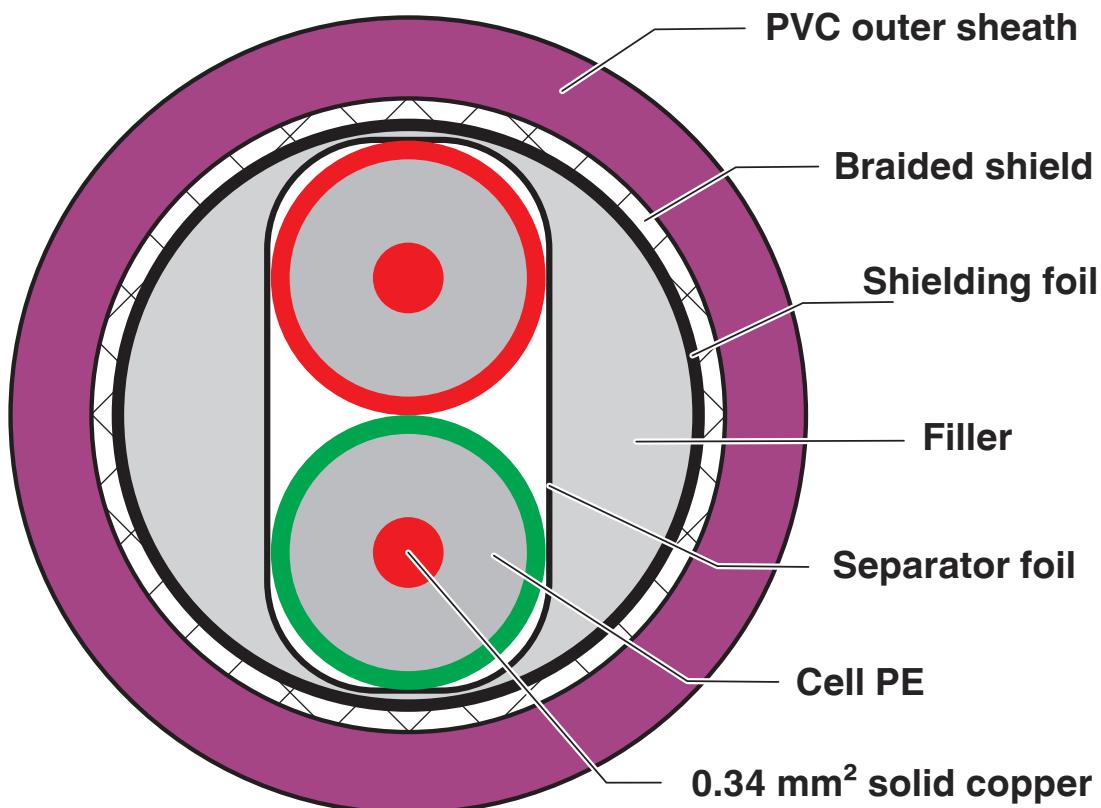
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Drawings

Schematic diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27061801 |
| ECLASS-15.0 | 27061801 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC003249 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

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