PSM-CABLE-PROFIB/FC - Bus system cable

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

Technical data

Product properties

Product type	Data cable by the meter
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

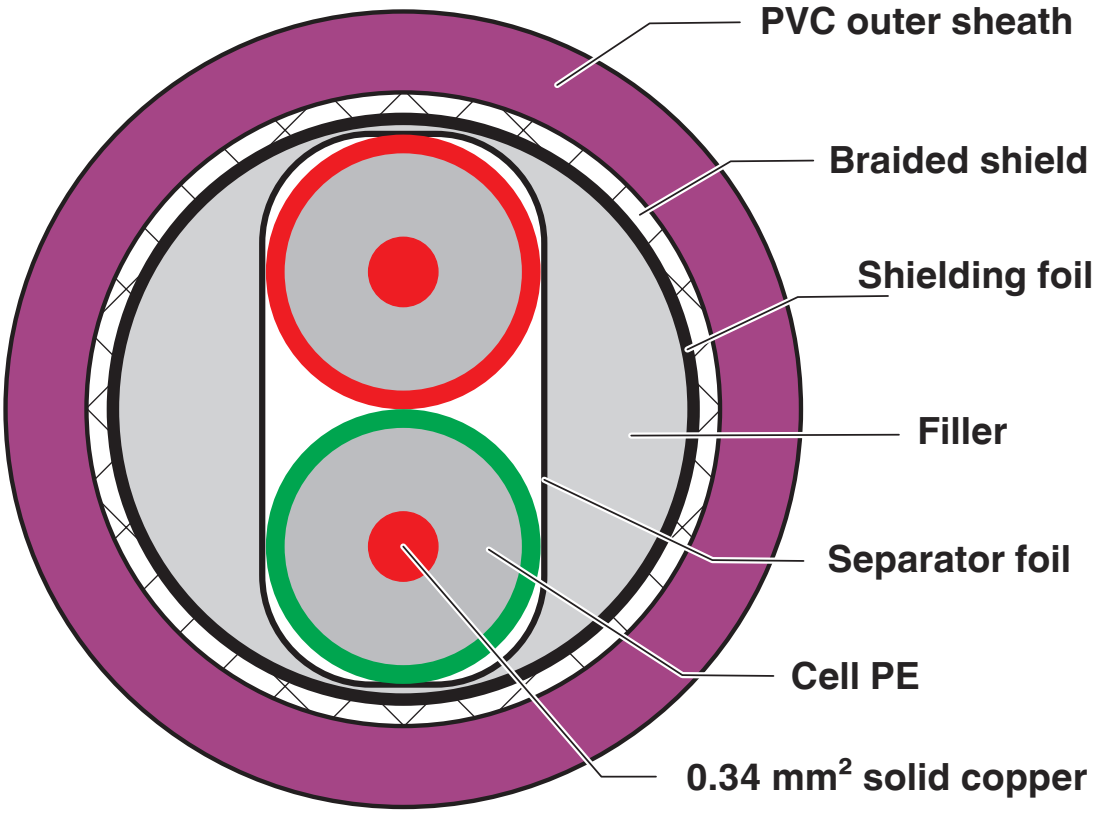
Cable/line

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 mm²
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 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)
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 811-1-4 (after 16 h at -40 °C))
	UV resistant (CL3 SUN RES)
Ambient temperature (operation)	-40 °C ... 60 °C

Drawings

Schematic diagram



Classifications

ECLASS

ECLASS-13.0	27061801
ECLASS-15.0	27061801

ETIM

ETIM 10.0	EC003249

UNSPSC

UNSPSC 21.0	26121600

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%

EF3.1 Climate Change

CO2e kg	0.214 kg CO2e

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