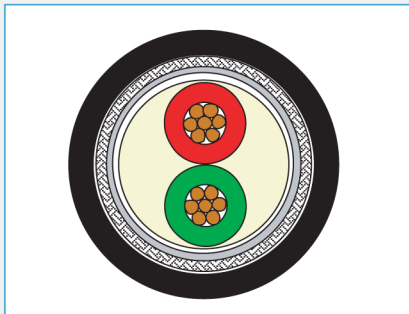


PB PA FC 1x2xAWG16/7 LSHF-FR

PROFIBUS PA FC AWG16 FLEX LSHF-FR Cable, 100 Ohm



Application

Spur and trunk cable for flexible installation indoor and outdoor on racks in conduits, FastConnect-Assembly

- UV-resistant
- Silikon free
- Limited oil and grease resistant

Standards

- IEC 61158 and IEC 61784
- Cable type A acc. to Profibus PA

Fire Rating

- IEC 60332-1, IEC 60332-3-24, IEC 61034-2, IEC 60754-1/2

Construction

Conductor	stranded bare copper wires, 7x0.51 \emptyset 1.53 mm, (cross-section AWG16/7)
Insulation	PE, \emptyset 3.25 mm
Stranding	two cores gn / rd to the Pair
Bedding	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, filling the interstices
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper braid, coverage approx. 70%
Sheath	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, \emptyset 9.5 mm
Colour	black
Outer Diameter	Nom. 9.5 mm
Weight	Nom. 143 kg/km
Tensile force N	270

Mechanical Properties

Bending radius	
single bending	≥ 50 mm
repeated bending	≥ 100 mm
Temperature range	- 30°C to + 70°C
Transport and storage	- 30°C to + 70°C
Installation	- 5°C to + 50°C

Electrical Properties at 20°C

Loop resistance	$\leq 28.6 \Omega/\text{km}$
Screen resistance nominal	12 Ω/km
Characteristic impedance (at 31.25 kHz)	100 $\Omega \pm 20 \Omega$
Mutual capacitance (at 1 kHz)	approx. 60 nF/km
Capacitance unbalance to earth max.	2 nF/km
Insulation resistance	$\geq 5 \text{ G}\Omega/\text{km}$
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating voltage (RMS)	≤ 100 V
Inductance (nominal)	0.70 mH/km

Electrical Data at 20°C

Frequency (kHz)	Impedance (Ohm)	Attenuation (dB/100m)	Propagation delay change ($\mu\text{s}/\text{km}$)
7.9-39	-	-	≤ 1.7
31.25	100 \pm 20	-	-
39	-	≤ 0.3	-

Ordering Information

P/N	Product Description	P.U
1027134	PROFIBUS PA FC AWG16 FLEX LSHF-FR Cable, PB PA FC 1x2xAWG16/7 LSHF-FR	1000m/drum