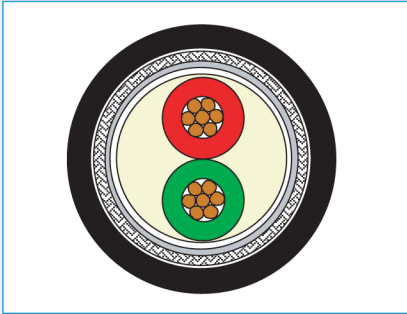


PB PA FC 1x2xAWG18/7 LSHF-FR

PROFIBUS PA FC FLEX LSHF-FR Cable, 100 Ohm



Application

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

- UV-resistant
- Silicon 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, 7x0.40 Ø 1.2 mm, (cross-section AWG18/7)
Insulation	foam-skin-PE, Ø 2.55 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, Ø 8.0 mm
Colour	black or blue
Outer Diameter	Nom. 8.0 mm
Weight	Nom. 83 kg/km
Tensile Force N	180

Mechanical Properties

Bending radius	
single bending	≥ 40 mm
repeated bending	≥ 80 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	≤ 43.6 Ω/km
Screen resistance	12 Ω/km
Characteristic impedance (Nominal)	100 Ω ± 20 Ω
Mutual capacitance (at 1 kHz)	approx. 60 nF/km
Capacitance unbalance to earth max.	2 nF/km
Insulation resistance	≥ 5 GΩkm
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 (µs/km)
7.9-39	-	-	≤ 1.7
31.25	100 ± 20	-	-
39	-	≤ 0.3	-

Ordering Information

P/N	Product Description	P.U
1025047	1 x 2 x 1.2/2.55-100, PROFIBUS PA FC FLEX LSHF-FR Cable, PB PA FC 1x2xAWG18/7 LSZH-FR BK	1000m/drum
1029194	1 x 2 x 1.2/2.55-100, PROFIBUS PA FC FLEX LSHF-FR Cable, PB PA FC 1x2xAWG18/7 LSZH-FR BU	1000m/drum