

PB PA 1x2xAWG18/7 LSHF-FR

PROFIBUS PA FLEX LSZH-FR Cable, 100 Ohm

Construction

Conductor	stranded bare copper wires, 7x0.40 Ø 1.2 mm, (cross-section AWG18/7)
Insulation	Polypropylene (PP) Ø 2.0 mm
Stranding	two cores gn / rd to the pair + two fillers
Static screen	PET-Al-Foil longitudinally applied
Drain wire	Tinned Copper 0.5mm2
Braid	tinned copper braid, coverage approx. 70%
Sheath	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27 with thermal resistance up to 90°C Ø 7.0 mm
Colour	Blue RAL5015
Outer Diameter	Nom. 7.0 mm
Weight	Nom. 72.3 kg/km
Tensile force N	190

Mechanical Properties

Bending radius	
single bending	≥ 40 mm
repeated bending	≥ 80 mm
Temperature range	- 40°C to + 90°C
Transport and storage	- 40°C to + 90°C
Installation	- 5°C to + 50°C

Electrical Properties at 20°C

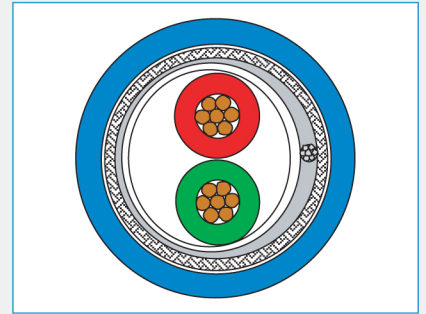
Loop resistance	≤ 43.6 Ω/km
Screen resistance nominal	12 Ω/km
Characteristic impedance (at 31.25 kHz)	100 Ω ± 20 Ω
Mutual capacitance (at 1 kHz)	approx. 60 nF/km
Capacitance unbalance to earth max.	2 nF/km
Insulation resistance	≥ 5 GΩkm
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating 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
60031151	PROFIBUS PA FLEX LSHF-FR Cable, PB PA 1x2xAWG18/7 LSZH-FR	1000m/drum



Application

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