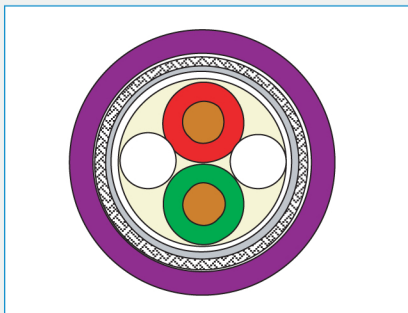


PB DP BASIC 1x2xAWG22/1 LSHF

PROFIBUS DP Basic LSZH Cable, 150 Ohm



Application

Installation cable :

- Halogen free and flame resistant
- Limited segment length (according to PROFIBUS-Net Manual)
- UV-resistant
- Silicon free
- Limited oil and grease resistance

Standards

- Customer specification
- EN 50170 part 8-2, cable type A, IEC 61158 and IEC 61784

Fire Rating

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

Construction

Conductor	Bare copper wire, \emptyset 0.64 mm, (cross-section 0.32 mm ²)
Insulation	foam-skin-PE, \emptyset 2.5 mm
Stranding	two cores gn / rd to the pair and two fillers
Wrapping	PET-Foil, \emptyset 5.2 mm
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper braid, coverage approx. 60%
Sheath	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, \emptyset 8.0 mm
Colour	violet RAL 4005
Outer Diameter	Nom. 8.0 mm
Weight	Nom. 71 kg/km
Tensile force N	100

Mechanical Properties

Bending radius	
single bending	\geq 60 mm
repeated bending	\geq 80 mm
Max. operating voltage	- 25°C to + 80°C
Relative velocity factor NVP	- 25°C to + 80°C
Impedance (at 10 MHz)	- 25°C to + 80°C

Electrical Properties at 20°C

Loop resistance	\leq 110 Ω /km
Screen resistance	\leq 9,5 Ω /km
Characteristic impedance (Nominal)	150 Ω
Mutual capacitance (at 1 kHz)	ca. 28.5 nF/km
Insulation resistance	\geq 5 G Ω km
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating voltage (RMS)	\leq 100 V

Electrical Data at 20°C

Frequency (kHz)	Impedance (Ohm)	Attenuation (dB/100m)
9.6 kHz	270 \pm 27	\leq 0.25
38.4 kHz	185 \pm 18.5	\leq 0.4
1 MHz	-	-
3 MHz	150 \pm 15	-
4 MHz	150 \pm 15	\leq 2.2
16 MHz	150 \pm 15	\leq 4.2
20 MHz	150 \pm 15	\leq 4.7

Ordering Information

P/N	Product Description	P.U
1026560	PROFIBUS DP Basic LSHF Cable, PB DP BASIC 1x2xAWG22/1 LSHF	1000m/drum