

PB DP FC 1x2xAWG24/19 TRAILING PUR

PROFIBUS DP FC Trailing-Cable, 150 Ohm

Construction

Conductor	stranded bare copper wires, 19x0.13, \emptyset 0.65 mm, (cross-section 0.25 mm ²)
Insulation	foam-skin-PE, \emptyset 2.5 mm
Stranding	two cores gn / rd to the Pair
Wrapping	PET-Foil
Bedding	PVC, filling the interstices \emptyset 5,4 mm
Wrapping	non woven Polyesterstape
Static screen	PET-Al-Foil spirally applied
Braid	tinned copper braid, coverage approx. 70%
Sheath	PUR, \emptyset 8.0 mm
Colour	petrol
Outer Diameter	Nom. 8.0 mm
Weight	Nom. 70 kg/km
Tensile force N	100

Mechanical Properties

Bending radius	
single bending	≥ 40 mm
repeated bending	≥ 120 mm
Bending cycles (at 20°C)	3.000.000
Temperature range	- 40°C to + 60°C
Transport and storage	- 40°C to + 60°C
Installation	- 40°C to + 60°C

Electrical Properties at 20°C

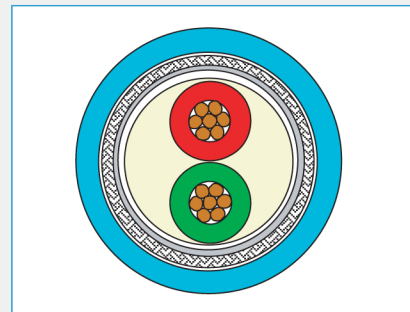
Loop resistance	$\leq 133 \Omega/\text{km}$
Screen resistance	$\leq 14 \Omega/\text{km}$
Characteristic impedance (Nominal)	150 Ω
Mutual capacitance (at 1 kHz)	ca. 28.5 nF/km
Insulation resistance	$\geq 5 \text{ G}\Omega/\text{km}$
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating voltage (RMS)	$\leq 100 \text{ V}$

Electrical Data at 20°C

Frequency (kHz)	Impedance (Ohm)	Attenuation (dB/100m)
9.6 kHz	270 \pm 27	≤ 0.3
38.4 kHz	185 \pm 18.5	≤ 0.4
1 MHz	-	-
3 MHz	150 \pm 15	-
4 MHz	150 \pm 15	≤ 2.5
16 MHz	150 \pm 15	≤ 4.9
20 MHz	150 \pm 15	-

Ordering Information

P/N	Product Description	P.U
1026562	PROFIBUS DP FC Trailing-Cable, PB DP FC 1x2xAWG24/19 TRAILING PUR	1000m/drum



Application

Trailing cable :

- Min. 3.000.000 bending cycles with min. bending radius and a maximum acceleration of 4 m/s²
- Limited segment length (according to PROFIBUS-Net Manual)
- FastConnect-assembly
- UV-resistant
- Silicon free
- Oil and grease resistant

Standards

- Customer specification
- UL-Listing / 300V Rating / CMX

Fire Rating

- IEC 60332-1, VDE 0482-265-2-1
- UL1581 VW-1
- IEC 61034-2, IEC 60754-1/2