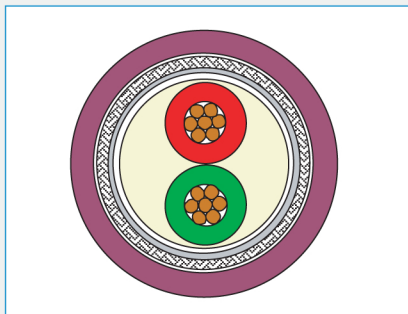


# PB DP FC 1x2xAWG24/19 PUR

PROFIBUS DP FC FLEX-PUR Cable, 150 Ohm



## Application

Flexible cable :

- For mobile use
- FastConnect-assembly
- UV-resistant
- Silicon free
- Oil and grease resistant

## Standards

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

## Fire Rating

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

## Construction

<b>Conductor</b>	Stranded bare copper wires, AWG24/7, 19 x 0.13, Ø 0.65 mm, (Cross-section 0.25 mm <sup>2</sup> )
<b>Insulation</b>	foam-skin-PE, Ø 2.5 mm
<b>Stranding</b>	two cores gn / rd to the pair
<b>Bedding</b>	PVC, filling the interstices, Ø 5.4 mm
<b>Wrapping</b>	non woven Polyestertape
<b>Static screen</b>	PET-Al-Foil spirally applied
<b>Braid</b>	tinned copper braid, coverage approx. 70%
<b>Sheath</b>	PUR, Ø 8.0 mm
<b>Colour</b>	violet, RAL 4005
<b>Outer Diameter</b>	Nom. 8.0 mm
<b>Weight</b>	nom. 70 kg/km
<b>Tensile force N</b>	120

## Mechanical Properties

<b>Bending radius</b>	
<b>single bending</b>	≥ 40 mm
<b>repeated bending</b>	≥ 120 mm
<b>Temperature range</b>	- 40°C to + 70°C
<b>Transport and storage</b>	- 40°C to + 60°C
<b>Installation</b>	- 40°C to + 60°C

## Electrical Properties at 20°C

<b>Loop resistance</b>	≤ 135 Ω/km
<b>Screen resistance nominal</b>	12 Ω/km
<b>Characteristic impedance (Nominal)</b>	150 Ω
<b>Mutual capacitance (at 1 kHz)</b>	< 30 nF/km
<b>Capacitance unbalance to earth max.</b>	1.5 nF/km
<b>Insulation resistance</b>	≥ 5 GΩkm
<b>Test Voltage (DC, 1 min) Core/Core and Core/Screen</b>	1 kV
<b>Operating voltage (RMS)</b>	≤ 100 V
<b>Inductance (nominal)</b>	0.90 mH/km

## Electrical Data at 20°C

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

## Ordering Information

P/N	Product Description	P.U
1025044	PROFIBUS DP FC FLEX-PUR Cable, PB DP FC 1x2xAWG24/19 PUR	1000m/drum