

PB PA FC 1x2xAWG18/7 SWB PVC

PROFIBUS PA FC FLEX Steel Wire Braid Armoured PVC Cable, 100 Ohm

Construction

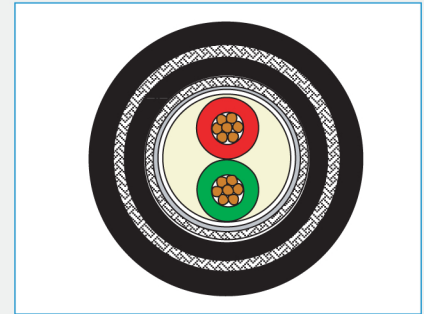
Conductor	stranded bare copper wires, 7x0.40 Ø 1.2 mm, (cross-section AWG18/7)
Insulation	foam-skin-PE, Ø 2.55 mm
Stranding	two cores gn / rd to the Pair
Bedding	PVC, filling the interstices
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper braid, coverage approx. 70%
Sheath	PVC, Ø 8.0 mm
Colour	black or blue
Armouring	galvanized steel wire braid, optical coverage 85% Ø 9.3 mm
Outer sheath	PVC, Ø 12.0 mm
Colour	black or blue
Outer Diameter	Nom. 12.0 mm
Weight	Nom. 211 kg/km
Tensile force N	500

Mechanical Properties

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



Application

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

- UV-resistant
- Silicon free
- Oil and grease resistant

Standards

- IEC 61158 and IEC 61784
- Cable type A acc. to Profibus PA

Fire Rating

- IEC 60332-1

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
1025049	PROFIBUS PA FC FLEX Steel Wire Braid Armoured PVC Cable, PB PA FC 1x2xAWG18/7 SWB PVC	1000m/drum