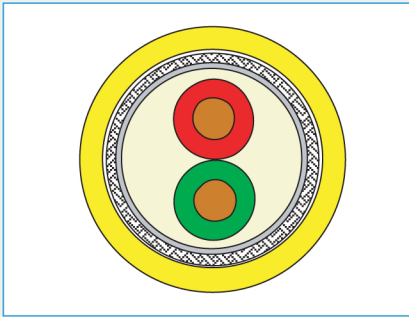


FF FC 1x2xAWG18/1 PVC

FOUNDATION Fieldbus FC INST PVC Cable



Application

Spur and trunk cable for fixed 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 FOUNDATION Fieldbus

Fire Rating

- IEC 60332-1

Construction

Conductor	bare copper wire, \emptyset 1.05 mm, (cross-section AWG18)
Insulation	foam-skin-PE, \emptyset 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, \emptyset 8.0 mm
Sheath Colour	yellow
Outer Diameter	Nom. 8.0 mm
Weight	Nom. 78 kg/km
Tensile force N	175

Mechanical Properties

Bending radius	
Single bending	≥ 40 mm
Repeated bending	≥ 80 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	≤ 46 Ω /km
Screen resistance nominal	12 Ω /km
Characteristic impedance (at 31.25 kHz)	100 $\Omega \pm 20$ Ω
Mutual capacitance (at 1 kHz)	approx. 60 nF/km
Capacitance unbalance to earth max.	2 nF/km
Insulation resistance	≥ 5 G Ω km
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 (μ s/km)
7.9-39	-	-	≤ 1.7
31.25	100 \pm 20	-	-
39	-	≤ 0.3	-

Ordering Information

P/N	Product Description	P.U
1025042	FOUNDATION Fieldbus FC INST PVC Cable, FF FC 1x2xAWG18/1 PVC	1000m/drum