

FF FC 1x2xAWG18/7 SWB LSZH

FOUNDATION Fieldbus FC FLEX Steel Wire Braid Armoured LSZH Cable

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 blue / orange to the pair
Bedding	LSHF, filling the interstices
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper braid, coverage approx. 70%
Sheath	LSZH, Ø 8.0 mm
Colour	grey
Armouring	galvanized steel wire braid, optical coverage 85%, Ø 9.3 mm
Outer sheath	LSZH, Ø 12.0 mm
Colour	grey
Outer Diameter	Nom. 12.0 mm
Weight	Nom. 202 kg/km
Tensile force N	500

Mechanical Properties

Bending radius	
Single bending	≥ 60 mm
Repeated bending	≥ 120 mm
Temperature range	- 30°C to + 70°C
Transport and storage	- 30°C to + 70°C
Installation	- 5°C to + 50°C

Electrical Properties at 20°C

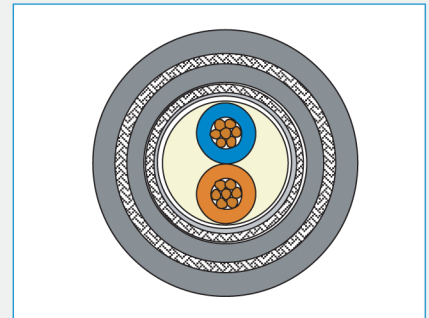
Loop resistance	≤ 43.6 Ω/km
Screen resistance nominal	12 Ω/km
Characteristic impedance (at 31.25 kHz)	100 Ω ± 20 Ω
Mutual capacitance (at 1 kHz)	approx. 60 nF/km
Capacitance unbalance to earth max.	2 nF/km
Insulation resistance	≥ 5 GΩkm
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating voltage (RMS)	≤ 100 V
Inductance (nominal)	0.70 mH/km

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
1030290	FOUNDATION Fieldbus FC FLEX Steel Wire Braid Armoured LSZH Cable, FF FC 1x2xAWG18/7 SWB LSZH	1000m/drum



Application

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

- FastConnect-Assembly
- Halogen free and flame resistant
- UV-resistant
- Silicon free
- Limited oil and grease resistance

Standards

- IEC 61158 and IEC 61784
- Cable type A acc. to FOUNDATION Fieldbus

Fire Rating

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