

02YSY(St)CY 1x2x1.3/2.55-100 Li PVC

FOUNDATION Fieldbus FC FLEX PVC Cable

Construction

Conductor	Stranded bare copper wires, 19x0.26 \emptyset 1.3 mm (Cross-section AWG18/19)
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, yellow, \emptyset 8.0 mm
Outer Diameter	Nom. 8.0mm
Weight	Nom. 89 kg/km
Tensile force N	190

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

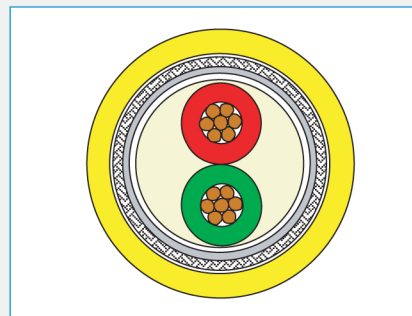
Loop resistance	$\leq 43.6 \Omega/\text{km}$
Screen resistance nominal	12 Ω/km
Characteristic impedance (at 31.25 kHz)	100 $\Omega \pm 20 \Omega$
Mutual capacitance (at 1 kHz)	approx. 60 nF/km
Capacitance unbalance to earth max.	2 nF/km
Insulation resistance	$\geq 5 \text{ G}\Omega/\text{km}$
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating voltage (RMS)	≤ 100 V
Inductance (nominal)	0.70 mH/km

Electrical Data at 20°C

Frequency (kHz)	Impedance (Ohm)	Attenuation (dB/100m)	Propagation delay change ($\mu\text{s}/\text{km}$)
7.9-39	-	-	≤ 1.7
31.25	100 \pm 20	-	-
39	-	≤ 0.3	-

Ordering Information

P/N	Product Description	P.U
1025041	FOUNDATION Fieldbus FC FLEX PVC Cable, 02YSY(St)CY 1x2x1.3/2.55-100 Li PVC	1000m/drum



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 FOUNDATION Fieldbus

Fire Rating

- IEC 60332-1