

# FF FC 1x2xAWG16/7 PVC

FOUNDATION Fieldbus FC AWG16 FLEX PVC Cable

## Construction

<b>Conductor</b>	stranded bare copper wires, 7x0.51 Ø 1.53 mm, (cross-section AWG16/7)
<b>Insulation</b>	PE, Ø 3.25 mm
<b>Stranding</b>	two cores gn / rd to the Pair
<b>Bedding</b>	PVC, filling the interstices
<b>Static screen</b>	PET-Al-Foil longitudinally applied
<b>Braid</b>	tinned copper braid, coverage approx. 70%
<b>Sheath</b>	PVC, Ø 9.5 mm
<b>Colour</b>	yellow
<b>Outer Diameter</b>	Nom. 9.5 mm
<b>Weight</b>	Nom. 129 kg/km
<b>Tensile force N</b>	270

## Mechanical Properties

<b>Bending radius</b>	
<b>Single bending</b>	≥ 50 mm
<b>Repeated bending</b>	≥ 100 mm
<b>Temperature range</b>	- 40°C to + 70°C
<b>Transport and storage</b>	- 40°C to + 70°C
<b>Installation</b>	- 5°C to + 50°C

## Electrical Properties at 20°C

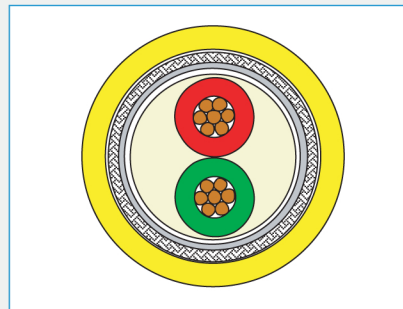
<b>Loop resistance</b>	≤ 28.6 Ω/km
<b>Screen resistance nominal</b>	12 Ω/km
<b>Characteristic impedance (at 31.25 kHz)</b>	100 Ω ± 20 Ω
<b>Mutual capacitance (at 1 kHz)</b>	approx. 60 nF/km
<b>Capacitance unbalance to earth max.</b>	2 nF/km
<b>Insulation resistance</b>	≥ 5 GΩkm
<b>Test Voltage (DC, 1 min) Core/Core and Core/Screen</b>	1 kV
<b>Operating voltage (RMS)</b>	≤ 100 V
<b>Inductance (nominal)</b>	0.70 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
1025039	FOUNDATION Fieldbus FC AWG16 FLEX PVC Cable, FF FC 1x2xAWG16/7 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