

## BUS-DOR 2x18 AWG F/UTP FF Type A Cable

**Part Number:** 9B100FB107

**Applications:** RS-485, Profibus PA industrial communication, ISA/SP-50 Fieldbus\* Type A, ProfiBus LAN, Industrial communication

**General Construction:** The cable contains one twisted pair, overall aluminum-foil shielded, a drain wire and Jacketed with 105°C grade compound

**Outer Jacket Material:** UV resistant FR-PVC

**Outer Diameter:** 8.5 mm nom.

**Weight:** 75 kg/km



### Design & Materials

#### Detailed Construction:

Cable voltage rating is 600 V, however the cable is not intended to be used for power supply (mains) transmission. It may be used in switchboards and electrical cabinets 600 V rating.

(\*) Cable maximum pulling force: 150 N

<b>Conductor Material:</b>	Annealed Tinned Copper
<b>Conductor Size:</b>	18 AWG
<b>Conductor Construction:</b>	7x0.40 mm
<b>Insulation Material:</b>	PO
<b>Insulation O.D.:</b>	3.17 mm nom.
<b>Insulation O.D.:</b>	0.12 in.
<b>Conductor Color Code:</b>	blue x orange
<b>Overall Shield Design:</b>	100% Coverage
<b>Overall Shield Material:</b>	Aluminum/Polyester Foil
<b>Overall Foil Shield:</b>	Yes
<b>Overall Drain-wire Material:</b>	Annealed Tinned Copper
<b>Overall Drain-wire size:</b>	20 AWG
<b>Overall Drain-wire Construction:</b>	Stranded
<b>Total number of conductors:</b>	2
<b>Outer Diameter:</b>	0.334 in.
<b>Outer Jacket Color:</b>	Orange
<b>Weight:</b>	50.5 lb/1000'
<b>Marking:</b>	Per request, Teldor Standard

### Standards

<b>Applicable Standards:</b>	RoHS 3 2015/863/EU
<b>Flammability Rating:</b>	IEC 60332-1, UL 1581 VW-1, UL 1685, UL CMG

## Performance

<b>Frequency Range:</b>	1 - 20 MHz
<b>Impedance:</b>	100 Ω
<b>Max. DC Resistance :</b>	22 Ω/km@20°C
<b>Max. Resistance Unbalance:</b>	2 %
<b>Attenuation:</b>	0.25 dB/km (39.5 KHz)
<b>Capacitance:</b>	52 pF/m
<b>Capacitance Unbalance:</b>	1.6 pF/m max.
<b>Velocity of Propagation:</b>	68 % nom.
<b>Dielectric Strength:</b>	1500 V/minute
<b>Dielectric Strength to Shield:</b>	1000 V/minute
<b>Voltage Rating:</b>	600 V
<b>Min. Bend Radius:</b>	90 mm
<b>Max. Operating Temperature:</b>	+90 °C
<b>Min. Operating Temperature:</b>	-40 °C
<b>UV Resistance:</b>	Yes
<b>Hydrocarbon Resistance:</b>	Yes

Prepared By	Revised By	Version Num	Modified on
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