

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

Part Number: **9B100FBxxx**

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

Teldor Cables & Systems Ltd. ("Teldor") reserves the right to make changes to the products described in this catalog without prior notice. Teldor does not assume any liability which may occur due to the use of the products described herein. Drawings may not be to scale and are provided for general and informational purposes only. The information contained in this catalog is the proprietary property of Teldor, and may not be used, reproduced or disclosed to others, in whole or in part, without the written authorization of Teldor.

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

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

Standards

Applicable Standards:	RoHS-2 2011/65/EU
Flamability Rating:	IEC 60332-1, UL 1581 VW-1, UL 1685, UL CMG

Performance

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

Prepared By	Revised By	Version Num	Modified on
Jacob Ben-Ary	Jacob Ben Ary	3.4	24-05-2016

Teldor Cables & Systems Ltd. ("Teldor") reserves the right to make changes to the products described in this catalog without prior notice. Teldor does not assume any liability which may occur due to the use of the products described herein. Drawings may not be to scale and are provided for general and informational purposes only. The information contained in this catalog is the proprietary property of Teldor, and may not be used, reproduced or disclosed to others, in whole or in part, without the written authorization of Teldor.