

Max. Recommended Pulling Tension:

Min. Bend Radius/Minor Axis:

3076F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information please call

1-800-Belden1



Description:

1 pair 18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, polyolefin filler, Beldfoil® shield (100% coverage), tinned copper drain wire, binder, PVC jacket. Fieldbus Foundation Registered Product.

Physical Characteristics (Overall)	
Conductor AWG:	
# Pairs AWG Stranding Conductor Material Dia. (mi	m)
1 18 7x26 TC - Tinned Copper 1.168	
Total Number of Conductors:	2
Insulation Insulation Material:	
Insulation Material PO - Polyolefin	
Outer Shield Outer Shield Material:	
Outer Shield Trade Name Type Outer Shield Materia	
Beldfoil® Tape Aluminum Foil-Polyes	ster Tape 100
Outer Shield Drain Wire AWG:	
AWG Stranding Drain Wire Conductor Material 20 7x28 TC - Tinned Copper	
Outer Jacket Outer Jacket Material:	
Outer Jacket Material PVC - Polyvinyl Chloride	
Outer Jacket Diameter:	
Nom. Dia. (mm) 7.112	
Overall Cable	
Overall Cabling Fillers:	Polypropylene
Overall Cabling Lay Length & Direction:	
Length (mm) Twists (twist/m) 57.150 17.3893	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-40°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	56.552 Kg/Km

266.892 N

63.500 mm



METRIC MEASUREMENT VERSION

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Applicable Standards & Environmental Progr	rams				
NEC/(UL) Specification:	CMR, PLTC-ER				
NEC Articles:	725, 727, 800				
CEC/C(UL) Specification:	CMG				
EU CE Mark:	Yes				
EU Directive 2000/53/EC (ELV):	Yes				
EU Directive 2002/95/EC (RoHS):	Yes				
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004				
EU Directive 2002/96/EC (WEEE):	Yes				
EU Directive 2003/11/EC (BFR):	Yes				
CA Prop 65 (CJ for Wire & Cable):	Yes				
MII Order #39 (China RoHS):	Yes				
Other Specification:	ITC-ER				
lame Test					
UL Flame Test:	UL1666 Riser				
C(UL) Flame Test:	FT4				
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)				
Guitability					
Suitability - Indoor:	Yes				
Suitability - Outdoor:	Yes				
Suitability - Burial:	Yes - UL				
Sunlight Resistance:	Yes				
Oil Resistance:	Yes				
Plenum/Non-Plenum					
Plenum (Y/N):	No				
ectrical Characteristics (Overall)					
Inaveraged Impedance:					
Freq. (MHz) Impedance (Ohm) 0.031 100.000					
lon. Inductance:					
Inductance:					
0.62339					
Iom. Capacitance Conductor to Shield:					
Capacitance (pF/m) 147.645					
lom. Mutual Capacitance:					
Capacitance (pF/m) 78.744					
Aximum Capacitance Unbalance:					
Capacitance (pF/m) 3.937					

66

METRIC MEASUREMENT VERSION



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Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km)	
19.2267	
Nominal Outer Shield DC Resistance:	
DCR @ 20°C (Ohm/km)	
24.608	
Nom. Attenuation:	
Freq. (MHz) Attenuation (dB/100m)	
0.039 0.262	
Max. Attenuation:	
Freq. (MHz) Attenuation (dB/100m) 0.298571 0.039 0.300	
Max. Operating Voltage - UL:	
Voltage 300 V RMS	
Max. Recommended Current:	
Description Current	
Per Conductor 5.2 Amps	
Other Electrical Characteristic 1:	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft
Other Electrical Characteristic 2:	31.25 KBits/sec

Notes (Overall)

Notes: Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Jacket diameter tolerance: +/- .010

Related Documents:

FieldbusCertificate-3076F.pdf - This is a Foundation H1 Cable Registration Certification for 3076F.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3076F 0031000	305 MT	21.773 KG	ORANGE	С	TW PR #18 PP FS PVC
3076F 003250	76 MT	6.350 KG	ORANGE	С	TW PR #18 PP FS PVC
3076F 0032500	762 MT	54.431 KG	ORANGE	С	TW PR #18 PP FS PVC
3076F 003500	152 MT	11.567 KG	ORANGE	С	TW PR #18 PP FS PVC
3076F 0035000	1,524 MT	108.863 KG	ORANGE	CN	TW PR #18 PP FS PVC
3076F 0061000	305 MT	21.773 KG	BLUE, LIGHT	С	TW PR #18 PP FS PVC

Notes:

C = CRATE REEL PUT-UP

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Revision Number: 6 Revision Date: 02-08-2012

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