Detailed Specifications & Technical Data



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



For more Information please call

1-800-Belden1



General 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.

1100000	
Physical Characteristics (Overall)	
Conductor AWG:	
# Pairs AWG Stranding Conductor Material Dia. (in.)	
1 18 7x26 TC - Tinned Copper 0.046	
Total Number of Conductors:	2
Insulation	
Insulation Material:	
Insulation Material	
PO - Polyolefin	
Outer Shield Outer Shield Material:	
	Soverage (%)
Beldfoil® Tape Aluminum Foil-Polyester Tape 1	
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. (in.)	
0.280	
Overall Cable	
Overall Cabling Fillers:	Polypropylene
Overall Cabling Lay Length & Direction:	
Length (in.) Twists (twist/ft)	
2.250 5.300	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-40°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	38 lbs/1000 ft.
Max. Recommended Pulling Tension:	60 lbs.
Min. Bend Radius/Minor Axis:	2.500 in.
Applicable Specifications and Agency Compliance (Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CM, CMX-Outdoor, PLTC-ER
NEC Articles:	725, 727, 800
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes

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ENGLISH MEASUREMENT VERSION

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

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				
Flame Test					
UL Flame Test:	UL1666 Riser				
C(UL) Flame Test:	FT4				
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)				
Suitability					
Suitability - Indoor:	Yes				
Suitability - Outdoor:	Yes				
Suitability - Burial:	Yes - UL				
Sunlight Resistance:	Yes				
Oil Resistance:	Yes				
Plenum/Non-Plenum					
Plenum (Y/N):	No				
Capacitance (pF/ft) 45.0 Nom. Mutual Capacitance: Capacitance (pF/ft) 24.0 Maximum Capacitance Unbalance: Capacitance (pF/ft)					
1.200 Nominal Velocity of Propagation: VP (%) 66 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft)					
5.86 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) 7.500 Nom. Attenuation:					
Freq. (MHz)Attenuation (dB/100 ft.)0.0390.080Max. Attenuation:					
() Freq. (MHz) Attenuation (dB/100 ft.) .091 0.039 0.091 Max. Operating Voltage - UL:					
Voltage 300 V RMS Max. Recommended Current:					
Description Current					

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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	1,000 FT	48.000 LB	ORANGE	С	TW PR #18 PP FS PVC
3076F 003250	250 FT	14.000 LB	ORANGE	С	TW PR #18 PP FS PVC
3076F 0032500	2,500 FT	120.000 LB	ORANGE	С	TW PR #18 PP FS PVC
3076F 003500	500 FT	25.500 LB	ORANGE	С	TW PR #18 PP FS PVC
3076F 0035000	5,000 FT	240.000 LB	ORANGE	CN	TW PR #18 PP FS PVC
3076F 0061000	1,000 FT	48.000 LB	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.

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Mouser Electronics

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Belden Wire & Cable: 3076F 003250 3076F 003500 3076F 0031000