ENGLISH MEASUREMENT VERSION



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

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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.

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:



Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester 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 Diameter:



Overall Cable

Overall Cabling Fillers: Polypropylene

Overall Cabling Lay Length & Direction:

 Length (in.)
 Twists (twist/ft)

 2.250
 5.300

Mechanica	Characteristics ((Overall)
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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.		

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Applicable Standards & Environmental Progr					
NEC/(UL) Specification:	CM, CMX-Outdoor, PLTC-ER				
NEC Articles:	725, 727, 800 CMG Yes Yes				
CEC/C(UL) Specification:					
EU Directive 2011/65/EU (ROHS II):					
EU CE Mark:					
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				

Electrical Characteristics (Overall)

Unaveraged Impedance:

Freq. (MHz) Impedance (Ohm) 0.031 | 100.000

Nom. Inductance:

Inductance (µH/ft) .19

Nom. Capacitance Conductor to Shield:

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 (%)

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Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

Max. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.) .091 0.039

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current Description 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 00310000	10,000 FT	510.000 LB	ORANGE	CN	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.

Revision Date: 06-18-2014 Revision Number: 7

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