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:

Max. Recommended Pulling Tension:

Min. Bend Radius/Minor Axis:

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. (mm)	
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 Material	Coverage (%)
Beldfoil® Tape Aluminum Foil-Polyeste	r 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:	Polypropylong
Overall Cabling Fillers:	Polypropylene
Overall Cabling Fillers: Overall Cabling Lay Length & Direction:	Polypropylene
Overall Cabling Fillers:	Polypropylene
Overall Cabling Fillers: Overall Cabling Lay Length & Direction: Length (mm) Twists (twist/m)	Polypropylene
Overall Cabling Fillers: Overall Cabling Lay Length & Direction: Length (mm) Twists (twist/m)	Polypropylene
Overall Cabling Fillers:Overall Cabling Lay Length & Direction:Length (mm) Twists (twist/m)57.15017.3893	Polypropylene -40°C To +105°C
Overall Cabling Fillers: Overall Cabling Lay Length & Direction: Length (mm) Twists (twist/m) 57.150 17.3893 Mechanical Characteristics (Overall)	

266.892 N

63.500 mm



METRIC MEASUREMENT VERSION

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pplicable Standards & Environmental Progr 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				
EU Directive 2000/53/EC (ELV):	Yes Yes 01/01/2004 Yes				
EU Directive 2002/95/EC (RoHS):					
EU RoHS Compliance Date (mm/dd/yyyy):					
EU Directive 2002/96/EC (WEEE):					
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				
ame Test					
UL Flame Test:	UL1666 Riser				
C(UL) Flame Test:	FT4				
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)				
uitability					
Suitability - Indoor:	Yes				
Suitability - Outdoor:	Yes				
Suitability - Burial:	Yes - UL				
Sunlight Resistance:	Yes				
Oil Resistance:	Yes				
enum/Non-Plenum					
Plenum (Y/N):	No				
ectrical Characteristics (Overall)					
naveraged Impedance:					
Freq. (MHz) Impedance (Ohm) 0.031 100.000					
om. Inductance:					
Inductance (µH/m)					
0.62339					
om. Capacitance Conductor to Shield:					
Capacitance (pF/m) 147.645					
Dem. Mutual Capacitance:					
Capacitance (pF/m) 78.744					
aximum Capacitance Unbalance:					
Capacitance (pF/m) 3.937					

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scription Current Conductor 5.2 Amps ther Electrical Characteristic 1:	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft
-	
scription Current	
Recommended Current:	
) V RMS	
Operating Voltage - UL: tage	
Freq. (MHz) Attenuation (dB/100m) 98571 0.039 0.300	
Attenuation:	
39 0.262	
q. (MHz) Attenuation (dB/100m)	
Attenuation:	
608	
R @ 20°C (Ohm/km)	
nal Outer Shield DC Resistance:	
2267	
R @ 20°C (Ohm/km)	
Conductor DC Resistance:	
Conductor DC Resistance:	

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 Number: 7 Revision Date: 06-18-2014

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