Detailed Specifications & Technical Data



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. (mm)		
1 18 7x26 TC - Tinned Copper 1.168		
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) 7.417		
Overall Cabling		
Overall Cabling Fillers:	Polypropylene	
Overall Cabling Lay Length & Direction:		
Length (mm) Twists (m.)		
57.150 1.615		
Overall Nominal Diameter:	7.112 mm	
Overall Nominal Diameter: Mechanical Characteristics (Overall)	7.112 mm	
	7.112 mm -40°C To +105°C	
Mechanical Characteristics (Overall)		
Mechanical Characteristics (Overall) Operating Temperature Range:	-40°C To +105°C	
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating:	-40°C To +105°C 105°C	



METRIC MEASUREMENT VERSION

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

	ams
NEC/(UL) Specification:	CMR, ITC, PLTC
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
ne Test	
UL Flame Test:	UL1666 Riser
C(UL) Flame Test:	FT4
ability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes - UL
Sunlight Resistance:	Yes
Oil Resistance:	Yes
num/Non-Plenum	
Plenum (Y/N):	No
trical Characteristics (Overall) veraged Impedance: req. (MHz) Impedance (Ohm) 031 100.000 h. Inductance: ductance (µH/m) 62339	
apacitance Conductor to Shield: apacitance (pF/m) 47.645	
. Mutual Capacitance:	
apacitance (pF/m) 3.744	
3.744	

66 66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 19.2267



METRIC MEASUREMENT VERSION

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Nominal Outer Shield DC Resistance:

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 REFL PUT-UP

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

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