METRIC MEASUREMENT VERSION



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.

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	Туре	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 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		
Max. Recommended Pulling Tension:	266.892 N		
Min. Bend Radius/Minor Axis:	63.500 mm		

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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 Yes			
EU Directive 2011/65/EU (ROHS II):				
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			
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/m) 0.62339

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 147.645

Nom. Mutual Capacitance:

Capacitance (pF/m) 78.744

Maximum Capacitance Unbalance:

Capacitance (pF/m) 3.937

Nominal Velocity of Propagation:

VP (%)

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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) 0.262

Max. Attenuation:

Freq. (MHz) Attenuation (dB/100m) 0.298571 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	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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determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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