

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

		For more Information please call 1-800-Belden1
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Description

18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), tinned copper drain wire, PVC jacket. Fieldbus Foundation Registered Product.

Physical Characteristics (Overall Cable):

Conductor:
 AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1.000	18	7x26	TC - Tinned Copper	0.048

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-Polyester Tape	100.000

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

Overall Cabling:

Overall Nominal Diameter: 0.292 in.

Pair:

Pair Color Code Chart

Number	Color
1	Blue & Orange

Pair Lay Length & Direction

Lay Length (in.)
2.250

Mechanical Characteristics (Overall Cable):

Operating Temperature Range	-30°C To +105°C
UL Temperature Rating	105°C
Bulk Cable Weight:	38 lbs/1000 ft.
Max. Recommended Pulling Tension:	59 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.920 in.

Applicable Specifications and Agency Compliance (Overall Cable):

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Applicable Standards:

NEC/(UL) Specification	ITC,PLTC-ER
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU Directive 2002/95/EC (RoHS) (Y/N):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

Flame Test:

UL Flame Test	UL1685 UL Loading
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Suitability:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Sunlight Resistance	Yes
Oil Resistance	Yes

Plenum/Non-Plenum:

Plenum (Y/N)	No
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Electrical Characteristics (Overall Cable):

Unaveraged Impedance

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	0.031			100.000

Nom. Inductance

Inductance (µH/ft)
0.190

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
45.000

Nom. Mutual Capacitance

Capacitance (pF/ft)
24.000

Maximum Capacitance Unbalance

Capacitance (pF/ft)
1.200

Nominal Velocity of Propagation

VP (%)
66.000

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
5.860

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:7.500 Ohm/1000 ft

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	0.039			0.080

Max. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)
	0.039		

Max. Operating Voltage - UL

Voltage
300 V RMS

Max. Recommended Current

Description	Current
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Per Conductor	5.2 Amps
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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 Cable):

Notes Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Jacket diameter tolerance: +/- .010" or .254mm

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3076F 0031000	1,000 FT	48.000 LB	ORANGE	C	TWPR #18 PP FS PVC ORG
3076F 003250	250 FT	14.000 LB	ORANGE	C	TWPR #18 PP FS PVC ORG
3076F 0032500	2,500 FT	117.500 LB	ORANGE	C	TWPR #18 PP FS PVC ORG
3076F 003500	500 FT	25.500 LB	ORANGE	C	TWPR #18 PP FS PVC ORG
3076F 0035000	5,000 FT	245.000 LB	ORANGE	C N	TWPR #18 PP FS PVC ORG
3076F 0061000	1,000 FT	48.000 LB	BLUE, LIGHT	C	TW PR #18 PP FS PVC BLULT

Notes:

C = CRATE REEL PUT-UP.

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

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