# **Product Details**

**Print Preview** 

Show Metric

3076F



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

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.

For more Information Please call

1-800-Belden1





## **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.

## **Physical Characteristics (Overall)**

Conductor

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AWG:
     # Pairs AWG Stranding Conductor Material Dia. (in.)
             18 7x26
                            TC - Tinned Copper 0.046
                                                                      2
    Total Number of Conductors:
 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
   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. (in.)
     0.280
 Overall Cable
    Overall Cabling Fillers:
                                                                      Polypropylene
   Overall Cabling Lay Length & Direction:
     Length (in.) Twists (twist/ft)
     2.250
                5.300
Mechanical Characteristics (Overall)
    Operating Temperature Range:
                                                                      -40°C To +105°C
    UL Temperature Rating:
                                                                      105°C
                                                                      38 lbs/1000 ft.
    Bulk Cable Weight:
    Max. Recommended Pulling Tension:
                                                                      60 lbs.
    Min. Bend Radius/Minor Axis:
                                                                      2.500 in.
Applicable Specifications and Agency Compliance (Overall)
Applicable Standards & Environmental Programs
    NEC/(UL) Specification:
                                                                      CM, CMX-Outdoor, PLTC-ER
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**NEC Articles:** 725, 727, 800 CMG CEC/C(UL) Specification: EU Directive 2011/65/EU (ROHS II): Yes **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 Yes - UL Suitability - Burial: **Sunlight Resistance:** Yes Oil Resistance: Yes Plenum/Non-Plenum No Plenum (Y/N): **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 (%) 66 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 5.86 **Nominal Outer Shield DC Resistance:** DCR @ 20°C (Ohm/1000 ft) 7.500 Nom. Attenuation: Freq. (MHz) Attenuation (dB/100 ft.) 0.039 0.080 Max. Attenuation: Freq. (MHz) Attenuation (dB/100 ft.) .091 0.039 0.091 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:** Fieldbus Certificate-3076F.pdf - This is a Foundation H1 Cable Registration Certification for 3076F. Close Revision Number: 7 Revision Date: 06-18-2014

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