

**3076F Paired - DataBus®/Profibus**

	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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**Description:**

Fieldbus/Profibus PA, 18 AWG stranded (7x26) tinned copper, polyolefin insulation, Beldfoil® (100% shield coverage), tinned copper drain wire, PVC jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Pairs	1
Total Number of Conductors	2
AWG	18
Stranding	7x26
Conductor Diameter	.048 in.
Conductor Material	TC - Tinned Copper

**INSULATION:**

Insulation Material	PO - Polyolefin
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**PAIR:**

Pair Lay Length	2.25 in.
Pair Shield Material Trade Name	Beldfoil®
Pair Shield Type	Tape
Pair Shield Material	Aluminum Foil-Polyester Tape
Pair Shield % Coverage	100 %

**PAIR SHIELD DRAIN WIRE :**

Pair Shield Drain Wire AWG	20
Pair Shield Drain Wire Stranding	7x28
Pair Shield Drain Wire Conductor Material	TC - Tinned Copper

**Pair Color Code Chart :**

Number	Color
1	Blue&Orange

**OUTER SHIELD:**

Outer Shield Material	Unshielded
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**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.253 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-40°C To +105°C
Temperature Rating	75°C
Bulk Cable Weight	35 lbs/1000 ft.
Max. Recommended Pulling Tension	59 lbs.
Min. Bend Radius (Install)	2.6 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	PLTC CM ITC
CEC/C(UL) Specification	CM

**FLAME TEST:**

UL Flame Test	1581 Vertical Tray
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**ELECTRICAL CHARACTERISTICS:**

Unaveraged Impedance :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Unaveraged Impedance (Ohms)
	.03125			100

Nom. Inductance	.19 µH/ft
Nom. Capacitance Conductor to Shield @ 1 KHz	45.0 pF/ft
Nom. Mutual Capacitance @ 1 KHz	24.0 pF/ft
Maximum Capacitance Unbalance @ 1 KHz	3.6 pF/ft
Nominal Velocity of Propagation	66 %
Nom. Conductor DC Resistance @ 20 Deg. C	7.3 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	7.5 Ohms/1000 ft

Nom. Attenuation (dB/100 ft) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	.039			.08

Max. Attenuation (dB/100 ft.) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
	.039			.091

Max. Operating Voltage - Other	300 V RMS
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Max. Recommended Current :

Description	Max. Recommended Current
Per Conductor	5.2 Amps

Other Electrical Characteristic 1	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pF/ft
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Other Electrical Characteristic 2	31.25 KBits/sec
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**NOTES:**

Notes	Profibus PA: Intrinsically Safe Blue jacket. Fieldbus: Orange jacket.
Notes (Cont'd.)	CPE Jacket is optional. Tape around pair has shorting fold.

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3076F 0031000	TWPR #18 PP FS PVC	1000	34	ORANGE	C N
3076F 003250	TWPR #18 PP FS PVC	250	10.5	ORANGE	C
3076F 0032500	TWPR #18 PP FS PVC	2500	85	ORANGE	C N
3076F 003500	TWPR #18 PP FS PVC	500	18.5	ORANGE	C
3076F 0035000	TWPR #18 PP FS PVC	5000	170	ORANGE	C N
3076F 0061000	TW PR #18 PP FS PVC	1000	37	BLUE, LIGHT	C N

C = CRATE REEL PUT-UP.

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

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