

**3077F Paired - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable**

 	<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:**

22 AWG stranded (7x30) tinned copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), tinned copper drain wire, PVC jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Pairs	1
Total Number of Conductors	2
AWG	22
Stranding	7x30
Conductor Diameter	.030 in.
Conductor Material	TC - Tinned Copper

**INSULATION:**

Insulation Material	PO - Polyolefin
Lay Length	1.50 in.

Pair Color Code Chart :

Number	Color
1	Blue & Orange

**OUTER SHIELD:**

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape
Outer Shield Material	Aluminum Foil-Polyester Tape
Outer Shield % Coverage	100 %

**OUTER SHIELD DRAIN WIRE :**

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

**OUTER JACKET:**

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

Overall Nominal Diameter	.196 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-30°C To +105°C
UL Temperature Rating	105°C
Bulk Cable Weight	18 lbs/1000 ft.
Max. Recommended Pulling Tension	27 lbs.
Min. Bend Radius (Install)	2.2 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	PLTC, CM, ITC
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (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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**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Unaveraged Impedance :

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

Nom. Inductance	.20 µH/ft
Nom. Capacitance Conductor to Shield @ 1 KHz	44.0 pF/ft
Nom. Mutual Capacitance @ 1 KHz	23.5 pF/ft
Maximum Capacitance Unbalance @ 1 KHz	1.2 pF/ft
Nominal Velocity of Propagation	66 %
Nom. Conductor DC Resistance @ 20 Deg. C	17.1 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	11.4 Ohms/1000 ft

Nom. Attenuation (dB/100 ft.) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	.039			.14

Max. Attenuation (dB/100 ft.) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
	.039			.152

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