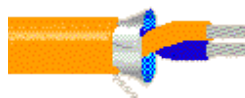
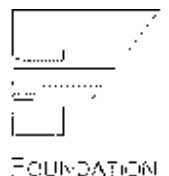


3078F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable



For more Information
please call

1-800-Belden1

**General Description:**

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

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 2

Insulation**Insulation Material:**

Insulation Material
FHDPE - Foam High Density Polyethylene

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

Overall Cable

Overall Nominal Diameter: 8.915 mm

Pair**Pair Color Code Chart:**

Number	Color
1	Blue & Orange

Pair Lay Length & Direction:

Lay Length (mm)
101.6

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 59.528 Kg/Km

Max. Recommended Pulling Tension: 142.342 N

Min. Bend Radius/Minor Axis: 88.900 mm

3078F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

CEC/C(UL) Specification: CM

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

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

Surface Printing (Overall)

Electrical Characteristics (Overall)

Unaveraged Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	1.0			150

Nom. Inductance:

Inductance (µH/m)
0.9843

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
52.496

Nom. Mutual Capacitance:

Capacitance (pF/m)
27.8885

Maximum Capacitance Unbalance:

Capacitance (pF/m)
1.50926

Nominal Velocity of Propagation:

VP (%)
78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
56.1051

 Ind. Pair Nominal Shield DC Resistance @ 20
 Deg. C: 10.827 Ohm/km

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
.25	0.59058
.625	0.85306
1.25	1.11554
3.125	1.80455

Max. Attenuation:

()	Freq. (MHz)
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METRIC MEASUREMENT VERSION

3078F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

1.00071	.625
1.29928	1.25
2.00141	3.125

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Description	Current
Per Conductor	2.5 Amps

Other Electrical Characteristic 1: ISA/IEC SP50 Requirements: Impedance @ 250 kHz, 625 kHz, 1.25 MHz, and 3.125 MHz: 150 +/- 10% Ohms

Other Electrical Characteristic 2: 1.0 and 2.5 MBits/sec

Notes (Overall)

Notes: Tape around pair has shorting fold. CPE & LSOH Jacket optional.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3078F 0031000	305 MT	21.319 KG	ORANGE	C	#22 PR FPE/LDPE FS PVC
3078F 0032500	762 MT	55.565 KG	ORANGE	C	#22 PR FPE/LDPE FS PVC
3078F 003500	152 MT	11.113 KG	ORANGE	C	#22 PR FPE/LDPE FS PVC

Notes:
C = CRATE REEL PUT-UP.

Test Reports

a) UL

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

b) CSA

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

* other test data may be available if requested at time of order.

Revision Number: 1 Revision Date: 09-19-2008

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