

## 3079A Multi-Conductor - DataBus® ISA/SP-50 PROFIBUS Cable



For more Information  
please call

1-800-Belden1

**Description:**

22 AWG solid bare copper conductors, FHDPE insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (65% coverage), sunlight resistant PVC jacket.

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

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	Solid	BC - Bare Copper	.026

**Insulation****Insulation Material:**

Insulation Material
FRFPE - Flame Retardant Foam Polyethylene

**Outer Shield****Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 0.315 in.

**Pair****Pair Color Code Chart:**

Number	Color
1	Red & Green

**Pair Lay Length & Direction:**

Lay Length (in.)
2.750

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 52 lbs/1000 ft.

Max. Recommended Pulling Tension: 50 lbs.

Min. Bend Radius (Install)/Minor Axis: 3.200 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMG, PLTC

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CEC/C(UL) Specification: CMG

AWM Specification: UL Style 20201 (600 V 75°C)

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 &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

**Flame Test**

UL Flame Test: UL1685 FT4 Loading

CSA Flame Test: FT4

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)****Fitted Impedance:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
		3	20	150

**Nom. Inductance:**

Inductance (µH/ft)
.282

**Nom. Mutual Capacitance:**

Capacitance (pF/ft)
8.5

**Nominal Velocity of Propagation:**

VP (%)
78

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
16.0

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 3.900 Ohm/1000 ft

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
0.200	0.270
4.000	0.670
16.000	1.370

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 m)
0.200	1.100
4.000	2.650
16.000	5.400

**Max. Operating Voltage - UL:**

Voltage	Description
300 V RMS	CMG
600 V RMS	AWM

**Max. Recommended Current:**

Description	Current
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**3079A Multi-Conductor - DataBus® ISA/SP-50 PROFIBUS Cable**

Per Conductor 2.3 Amps

**Other Electrical Characteristic 1:**

Capacitance Unbalance @ 1 kHz: Less than 1000 pF/km

**Notes (Overall)**

**Notes:** Siemens Sinec L2 Cable. For CPE jacketed version order Part No. YR45047. For LSOH (FRNC) jacketed version, order Part No. YR44731.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3079A 0071000	1,000 FT	56.000 LB	VIOLET	C	1 PR #22 FRFPE FRPE SH PVC
3079A 0072000	2,000 FT	112.000 LB	VIOLET	C	1 PR #22 FRFPE FRPE SH PVC
3079A 0073600	3,600 FT	201.600 LB	VIOLET	C	1 PR #22 FRFPE FRPE SH PVC
3079A 0601000	1,000 FT	56.000 LB	CHROME	C	1 PR #22 FRFPE FRPE SH PVC
3079A 0602000	2,000 FT	112.000 LB	CHROME	C	1 PR #22 FRFPE FRPE SH PVC
3079A 0603600	3,600 FT	201.600 LB	CHROME	C	1 PR #22 FRFPE FRPE SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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