

## 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 Cabling

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:	75°C
Bulk Cable Weight:	45 lbs/1000 ft.
Max. Recommended Pulling Tension:	50 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

CEC/C(UL) Specification: CMG

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

**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 & 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
300V	CMG
600V	AWM

### Max. Recommended Current:

Description	Current
Per Conductor	2.3 Amps

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**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 LS0H (FRNC) jacketed version, order Part No. YR44731.

### 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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