

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



For more Information  
please call

1-800-Belden1



### General Description:

22 AWG solid bare copper conductors, FRFPE 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

Total Number of Conductors: 2

#### 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/Minor Axis:	3.200 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG, PLTC
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 20201 (600 V 75°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes

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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
MIL Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4
IEEE Flame Test:	1202

### Suitability

Sunlight Resistance:	Yes
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### 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
300 V RMS (NEC Type CMG)
600 V RMS (UL AWM Style 20201)
300V RMS (NEC Type PLTC)

### Max. Recommended Current:

Description	Current
Per Conductor	2.3 Amps

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

Other Electrical Characteristic 2: Input Impedance/Unfitted Impedance 3 - 20 MHZ, 150 +/-15 Ohms

## 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 0075000	5,000 FT	285.000 LB	VIOLET		1 PR #22 FRFPE FRPE SH PVC
3079A 0601000	1,000 FT	56.000 LB	CHROME	C	1 PR #22 FRFPE FRPE SH PVC

## ENGLISH MEASUREMENT VERSION

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

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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