

## 3079A Paired - DataBus® ISA/SP-50 PROFIBUS 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 solid bare copper conductors, FHDPE insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (65% coverage), PVC jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	22
Stranding	Solid
Conductor Diameter	.026 in.
Conductor Material	BC - Bare Copper

#### INSULATION:

Insulation Material	FRFPE - Flame Retardant Foam Polyethylene
Lay Length	2.75 in.

#### Pair Color Code Chart :

Number	Color
1	Red & Green

#### OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape/Braid

#### Outer Shield Material :

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

Outer Shield % Coverage	100 %
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#### OUTER JACKET:

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

Overall Nominal Diameter	.315 in.
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#### MECHANICAL CHARACTERISTICS:

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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)	3.5 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	PLTC, CMG
CEC/C(UL) Specification	CMG
AWM Specification	UL Style 20201 (600 V 75°C)
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 FT4 Loading
CSA Flame Test	FT4

#### ELECTRICAL CHARACTERISTICS:

##### Fitted Impedance :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Fitted Impedance (Ohms)
		3	20	150

Nom. Inductance	.282 µH/ft
Nom. Mutual Capacitance @ 1 KHz	8.5 pF/ft
Nominal Velocity of Propagation	78 %
Nom. Conductor DC Resistance @ 20 Deg. C	16.0 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	3.9 Ohms/1000 ft

##### Nom. Attenuation (dB/100 ft) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	.2			.27
	4.0			.67
	16.0			1.37

##### Max. Attenuation (dB/100 m) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 m)
	.20			.9
	4.0			2.2
	16.0			4.5

##### Max. Operating Voltage - UL :

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UL Voltage	Description
300V	CMG
600V	AWM

Max. Recommended Current :

Description	Max. Recommended Current
Per Conductor	2.3 Amps

Other Electrical Characteristic 1

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

### NOTES:

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	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3079A 0071000	1 PR #22 FRFPE FRPE SH PVC	1000	56	VIOLET	C
3079A 0072000	1 PR #22 FRFPE FRPE SH PVC	2000	112	VIOLET	C
3079A 0073600	1 PR #22 FRFPE FRPE SH PVC	3600	201.6	VIOLET	C
3079A 0601000	1 PR#22FRFPEFRPES HPVC	1000	56	CHROME	C
3079A 0602000	1 PR#22FRFPEFRPES HPVC	2000	112	CHROME	C
3079A 0603600	1 PR#22FRFPEFRPES HPVC	3600	201.6	CHROME	C

C = CRATE REEL PUT-UP.

Revision Number: 1

Revision Date: 02-22-2007

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