



**3079A Paired - DataBus®/Profibus**

	<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:**

Profibus DP, 22 AWG solid bare copper, flame retardant foamed polyethylene insulation, Beldfoil® + 65% tinned copper braid shield (100% shield 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
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**PAIR:**

Pair Lay Length	2.75 in.
Pair Shield Type	Tape/Braid

Pair Shield Material :

Description	Material Trade Name	Type	Material	% Coverage (%)	Stranding	Diameter (in.)	Conductor Material
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100			
2		Braid	Tinned Copper	65			

Pair Color Code Chart :

Number	Color
1	Red & Green

**OUTER SHIELD:**

Outer Shield Material	Unshielded
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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:**

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

**FLAME TEST:**

UL Flame Test	UL1581 Vertical Tray
CSA Flame Test	FT4

**ELECTRICAL CHARACTERISTICS:**

Fitted Impedance :

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

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
	100.0			3.75
	300.0			6.52

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 - Other 300 V RMS

Max. Recommended Current :

Description	Max. Recommended Current
Per Conductor	2.3 Amps



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

Notes	Siemens Sinec L2 Cable.
Notes (Cont'd.)	For CPE jacketed version order Part No. YR45047. For LSOH (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	49	VIOLET	C D
3079A 0072000	1 PR #22 FRFPE FRPE SH PVC	2000	100	VIOLET	C D
3079A 0073600	1 PR #22 FRFPE FRPE SH PVC	3600	180	VIOLET	C D
3079A 0601000	1 PR#22FRFPEFRPES HPVC	1000	49	CHROME	C D
3079A 0602000	1 PR#22FRFPEFRPES HPVC	2000	100	CHROME	C D
3079A 0603600	1 PR#22FRFPEFRPES HPVC	3600	176.4	CHROME	C D

C = CRATE REEL PUT-UP.

D = FINAL PUT-UP LENGTH MAY VARY -0% TO +20% FROM LENGTH SHOWN.

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