





3079A Paired - DataBus® ISA/SP-50 PROFIBUS Cable

		<p>Metric Version For more information please call 1-800-Belden1</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	0.66 mm
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	FRFPE - Flame Retardant Foam Polyethylene
Lay Length	6.985 cm
Pair Diameter	5.029 mm

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	8.001 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	66.969 Kg/Km
Max. Recommended Pulling Tension	222.41 N
Min. Bend Radius (Install)	88.9 mm

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. Mutual Capacitance @ 1 KHz	27.888 pF/m
Nominal Velocity of Propagation	78 %
Nom. Conductor DC Resistance @ 20 Deg. C	52.496 Ohms/km
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	12.796 Ohms/km

Nom. Attenuation (dB/100 ft) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	0.2			0.886
	4			2.198
	16			4.495

Max. Attenuation (dB/100 m) :



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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 m)
	0.2			0.9
	4			2.2
	16			4.5

Max. Operating Voltage - UL :

UL Voltage	UL
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 LSOH (FRNC) jacketed version, order Part No. YR44731.

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
3079A 0071000	1 PR #22 FRFPE FRPE SH PVC	304.8	25.424	VIOLET	C
3079A 0072000	1 PR #22 FRFPE FRPE SH PVC	609.6	50.848	VIOLET	C
3079A 0073600	1 PR #22 FRFPE FRPE SH PVC	1097.28	91.526	VIOLET	C
3079A 0601000	1 PR#22FRFPEFRPES HPVC	304.8	25.424	CHROME	C
3079A 0602000	1 PR#22FRFPEFRPES HPVC	609.6	50.848	CHROME	C
3079A 0603600	1 PR#22FRFPEFRPES HPVC	1097.28	91.526	CHROME	C

C = CRATE REEL PUT-UP.

Revision Number: 1

Revision Date: 10-05-2005



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