


**183079A Paired - Continuous Armor DataBus® ISA/SP-50 PROFIBUS Cable**

 	<p><b>Metric Version</b> 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, FRFPE insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (65% coverage), PVC inner jacket, continuous corrugated aluminum armor, PVC outer 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 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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**ARMORING/OUTER JACKET:**

**ARMORING :**

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Armor Type	Continuously Corrugated
Armor Material	Aluminum
Armor Thickness	0.533 mm
Diameter over Armor	12.116 mm

**OUTER JACKET OVER ARMOR :**

Outer Jacket over Armor (y/n)	Y
Outer Jacket Material Over Armor	PVC
Outer Jacket Wall Thickness Over Armor	1.397 mm

**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	14.91 mm
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-30°C To +60°C
UL Temperature Rating	60°C
Bulk Cable Weight	252.994 Kg/Km
Max. Recommended Pulling Tension	222.41 N
Min. Bend Radius (Install)	177.8 mm

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	PLTC, CMG
CEC/C(UL) Specification	CMG
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/18/2006

**FLAME TEST:**

UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Fitted Impedance :

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

Nom. Inductance	0.925 µH/m
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

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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) :

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	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

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
183079A 0072000	ARMORED 1PR #22 FRFPEFRPESH PVC	609.6	178.876	VIOLET	C Z

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 1

Revision Date: 02-22-2007

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