

## 183079A Multi-Conductor - Continuous Armor DataBus® ISA/SP-50 PROFIBUS Cable



For more Information  
please call

1-800-Belden1

**General Description:**

22 AWG solid bare copper conductors, FHDPE insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (65% coverage), 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

Outer Jacket over Armor (y/n): Y

**Outer Jacket over Armor**

Outer Jacket Wall Thickness Over Armor: .055

**Armor**

Armor Type: Continuously Corrugated

Armor Material: Aluminum

Armor Thickness: .025

Diameter over Armor: .555

**Overall Cable**

Overall Nominal Diameter: 0.655 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 +60°C

Bulk Cable Weight: 170 lbs/1000 ft.

Max. Recommended Pulling Tension: 50 lbs.

Min. Bend Radius/Minor Axis: 7 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC(UL) Specification: CMG, PLTC

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CEC/C(UL) Specification:	CMG
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
EU RoHS Compliance Date (mm/dd/yyyy):	04/18/2006
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

## Suitability

Sunlight Resistance:	Yes
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## Plenum/Non-Plenum

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

## Fitted Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
		3	20	150

## 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.)
.2	.27
4.0	.67
16.0	1.37

## 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	Description
300V	CMG
600V	AWM

## Max. Recommended Current:

Description	Current
Per Conductor	2.3 Amps

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

## Put Ups and Colors:

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No put ups and colors are available for this product

Revision Number: 3      Revision Date: 12-23-2015

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