

123092A Coax - ControlNet™ Quad Shielded Coax



For more Information
 please call
 1-800-Belden1



Description

18 AWG solid bare copper-covered steel conductor, foam polyethylene insulation, Duobond IV® quad shield (100% coverage), PVC inner jacket, aluminum interlocked armor, PVC sunlight-resistant outer jacket.

Suitable Applications (Overall):

Suitable Applications ControlNet™, Modbus II, Industrial Coax

Physical Characteristics (Overall):

Conductor:

AWG

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BCCS - Bare Copper Covered Steel	0.040

Insulation:

Insulation Material

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	0.180

Inner Jacket:

Inner Jacket Material

Inner Jacket Material
PVC - Polyvinyl Chloride

Outer Shield:

Outer Shield Material

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
4		Braid	AL - Aluminum	40

Outer Jacket:

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

Armor:

Armor Type Interlocking

Armor Material Aluminum

Diameter over Armor .49

Overall Cabling:

Overall Nominal Diameter: 0.600 x 0.000 in.

Mechanical Characteristics (Overall):

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

Bulk Cable Weight: 142 lbs/1000 ft.

Max. Recommended Pulling Tension: 162 lbs.

Min. Bend Radius (Install)/Minor Axis: 7.300 in.

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Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CMG, HL
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	10/01/2005
RG Type	6/U

Flame Test:

UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

Suitability:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes

Plenum/Non-Plenum:

Plenum (Y/N)	N
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Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
75.000

Nom. Inductance

Inductance (µH/ft)
0.097

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
16.200

Nominal Velocity of Propagation

VP (%)
82

Nominal Delay

Delay (ns/ft)
1.280

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
28.000

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
3.600

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.350
	2.000			0.380
	5.000			0.450
	10.000			0.590
	20.000			0.860
	50.000			1.370
	100.000			1.970
	200.000			2.820
	300.000			3.480
	400.000			4.040

Max. Operating Voltage - UL

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Voltage
300 V RMS

Minimum Structural Return Loss

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5.000	50.000	23.000

Notes (Overall):

Notes ControlNet is a ControlNet International trademark.

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
123092A 0101000	1,000 FT	149.000 LB	BLACK		3092A ALUM ARMOR PVC BLK
123092A 0102000	2,000 FT	336.000 LB	BLACK		3092A ALUM ARMOR PVC BLUSTG
123092A 0105000	5,000 FT	795.000 LB	BLACK		3092A ALUM ARMOR PVC - SPECIALBLK
123092A J221000	1,000 FT	149.000 LB	BLUE, STRONG		3092A ALUM ARMOR PVC BLUSTG
123092A J222000	2,000 FT	336.000 LB	BLUE, STRONG		3092A ALUM ARMOR PVC - SPECIALBLUSTG
123092A J225000	5,000 FT	795.000 LB	BLUE, STRONG		3092A ALUM ARMOR PVC BLUSTG

Notes:

Revision Number: 1 Revision Date: 04-03-2008

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