Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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.

Usage (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	.040

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	.180

Inner Jacket

Inner Jacket Material:

Inner Jacket Material PVC - Polyvinyl Chloride

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Туре	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 Cable

Overall Nominal Diameter: 0.600 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
Bulk Cable Weight:	142 lbs/1000 ft.
Max. Recommended Pulling Tension:	162 lbs.

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

Applicable Specifications and Agency Compliance (Overall)					
Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CM				
CEC/C(UL) Specification:	CMG, HL				
EU Directive 2000/53/EC (ELV):	Yes				
EU Directive 2002/95/EC (RoHS):	Yes				
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005				
EU Directive 2002/96/EC (WEEE):	Yes				
EU Directive 2003/11/EC (BFR):	Yes				
CA Prop 65 (CJ for Wire & Cable):	Yes				
MII Order #39 (China RoHS):	Yes				
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):	No				

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



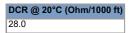
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C	(Ohm/1000 ft)
3.6	

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.35
2	.38
5	.45

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10	.59
20	.86
50	1.37
100	1.97
200	2.82
300	3.48
400	4.04

Max. Operating Voltage - UL:

Voltage			
300 V	'RMS		

Minimum Structural Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	50	23

Notes (Overall)

Notes: ControlNet is a ControlNet International trademark.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
123092A J221000	1,000 FT	150.000 LB	BLUE, STRONG		3092A ALUM ARMOR PVC
123092A J225000	5,000 FT	795.000 LB	BLUE, STRONG		3092A ALUM ARMOR PVC
123092A 0101000	1,000 FT	150.000 LB	BLACK		3092A ALUM ARMOR PVC
123092A 0102000	2,000 FT	310.000 LB	BLACK		3092A ALUM ARMOR PVC

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