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please call

1-800-Belden1



### General 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. (mm)
1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FPE - Foam Polyethylene	4.572

#### Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	7.569

#### 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	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.143

#### Armor

Armor Type: Interlocking

Armor Material: Aluminum

Diameter over Armor: .501

#### Overall Cable

Overall Nominal Diameter: 15.011 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Bulk Cable Weight: 211.324 Kg/Km

Max. Recommended Pulling Tension: 889.640 N

Min. Bend Radius/Minor Axis: 180.340 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC(UL) Specification: CL2, CM

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2000/53/EC (ELV): Yes

## METRIC MEASUREMENT VERSION

## 123092A Coax - ControlNet™ Quad Shielded Coax

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
MIL Order #39 (China RoHS):	Yes
RG Type:	6/U

### Flame Test

UL Flame Test:	UL1685 Vertical Tray Flame Test
CSA Flame Test:	FT4

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes

### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

Impedance (Ohm)  
75

### Nom. Inductance:

Inductance (µH/m)  
0.318257

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)  
53.1522

### Nominal Velocity of Propagation:

VP (%)  
82

### Nominal Delay:

Delay (ns/m)  
4.19968

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
91.868

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
11.8116

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.14835
2	1.24678
5	1.47645
10	1.93579
20	2.82166
50	4.49497
100	6.46357
200	9.25242
300	11.4179
400	13.2552

### 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)

## METRIC MEASUREMENT VERSION

## 123092A Coax - ControlNet™ Quad Shielded Coax

**Notes:** ControlNet is a ControlNet International trademark.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
123092A J221000	1,000 FT	153.000 LB	BLUE, STRONG		3092A ALUM ARMOR PVC
123092A J225000	5,000 FT	810.000 LB	BLUE, STRONG		3092A ALUM ARMOR PVC
123092A 0101000	1,000 FT	153.000 LB	BLACK		3092A ALUM ARMOR PVC
123092A 0102000	2,000 FT	316.000 LB	BLACK		TRANSFER REVIEW

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