

## 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	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 Cable**

**Overall Nominal Diameter:** 0.600 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.

## 123092A Coax - ControlNet™ Quad Shielded Coax

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

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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:

Impedance (Ohm)

75

## Nom. Inductance:

Inductance (μH/ft)

.097

## Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.2

## Nominal Velocity of Propagation:

VP (%)

82

## Nominal Delay:

Delay (ns/ft)

1.28

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

28.0

## 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

## 123092A Coax - ControlNet™ Quad Shielded Coax

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

**Max. Operating Voltage - UL:**

<b>Voltage</b>
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.

**Related Documents:**

No related documents are available for this product

**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	850.000 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
123092A 0105000	5,000 FT	850.000 LB	BLACK		3092A ALUM ARMOR PVC - SPECIAL

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

© 2012 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.