

3092A Coax - ControlNet™ Quad Shielded Coax

For more Information
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 Jacket.

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)
Gas-injected FPE - Foam Polyethylene	4.572

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

Overall Cable

Overall Nominal Diameter: 7.569 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
Bulk Cable Weight:	49.111 Kg/Km
Max. Recommended Pulling Tension:	720.608 N
Min. Bend Radius/Minor Axis:	76.200 mm

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

NEC/(UL) Specification:	CL2R, CMG, CMR
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

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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	6/U
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Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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Suitability

Sunlight Resistance:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Plenum Number:	3093A
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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

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Minimum Structural Return Loss:

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

Notes (Overall)

Notes: CPE jacket or LSZH jacket also available as special products.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3092A X7E1000	1,000 FT	37.000 LB	BLUE X7E	C	#18 GIFHDLDPD DBSH PVC
3092A X7E2000	2,000 FT	82.000 LB	BLUE X7E	C	#18 GIFHDLDPD DBSH PVC
3092A X7E500	500 FT	20.500 LB	BLUE X7E		#18 GIFHDLDPD DBSH PVC
3092A X7E5000	5,000 FT	190.000 LB	BLUE X7E		#18 GIFHDLDPD DBSH PVC
3092A 0021000	1,000 FT	41.000 LB	RED	C	#18 GIFHDLDPD DBSH PVC
3092A 0101000	1,000 FT	37.000 LB	BLACK	C	#18 GIFHDLDPD DBSH PVC
3092A 01010000	10,000 FT	400.000 LB	BLACK		#18 GIFHDLDPD DBSH PVC
3092A 0102000	2,000 FT	82.000 LB	BLACK	C	#18 GIFHDLDPD DBSH PVC
3092A 0102500	2,500 FT	100.000 LB	BLACK	C	#18 GIFHDLDPD DBSH PVC
3092A 010500	500 FT	20.500 LB	BLACK		#18 GIFHDLDPD DBSH PVC
3092A 0105000	5,000 FT	190.000 LB	BLACK		#18 GIFHDLDPD DBSH PVC

Notes:

C = CRATE REEL PUT-UP.

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