

## 3092A 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 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 CE Mark: Yes

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

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

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:	UL1666 Vertical Shaft
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### Suitability

Sunlight Resistance:	Yes
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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)

**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	305 MT	19.051 KG	BLUE X7E	C	#18 GIFHDLDPPE DBSH PVC
3092A X7E2000	610 MT	37.195 KG	BLUE X7E	C	#18 GIFHDLDPPE DBSH PVC
3092A X7E500	152 MT	9.299 KG	BLUE X7E		#18 GIFHDLDPPE DBSH PVC
3092A X7E5000	1,524 MT	92.987 KG	BLUE X7E		#18 GIFHDLDPPE DBSH PVC
3092A 0021000	305 MT	19.051 KG	RED	C	#18 GIFHDLDPPE DBSH PVC
3092A 0101000	305 MT	19.051 KG	BLACK	C	#18 GIFHDLDPPE DBSH PVC
3092A 01010000	3,048 MT	195.046 KG	BLACK		#18 GIFHDLDPPE DBSH PVC
3092A 0102000	610 MT	37.195 KG	BLACK	C	#18 GIFHDLDPPE DBSH PVC
3092A 0102500	762 MT	45.359 KG	BLACK	C	#18 GIFHDLDPPE DBSH PVC
3092A 010500	152 MT	9.299 KG	BLACK		#18 GIFHDLDPPE DBSH PVC
3092A 0105000	1,524 MT	92.987 KG	BLACK		#18 GIFHDLDPPE DBSH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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