

## 3092F Coax - ControlNet™ and ControlBus™ Quad Shielded Coax



For more Information  
please call

1-800-Belden1



### General Description:

20 AWG stranded (105x40) bare copper 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	20	105x40	BC - Bare Copper	1.016

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FPE - Foam Polyethylene	4.6482

#### 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	100.000
2		Braid	AL - Aluminum	60.000
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
4		Braid	AL - Aluminum	40.000

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 7.696 mm

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 59.528 Kg/Km

Max. Recommended Pulling Tension: 155.687 N

Min. Bend Radius/Minor Axis: 76.200 mm

Min. Flexing Radius: 15.240 cm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CL2R, 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

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

MIL Order #39 (China RoHS): Yes

## METRIC MEASUREMENT VERSION

### 3092F Coax - ControlNet™ and ControlBus™ Quad Shielded Coax

RG Type: 6/U

#### Flame Test

UL Flame Test: UL1666 Riser

CSA Flame Test: FT4

#### Surface Printing (Overall)

#### Electrical Characteristics (Overall)

##### Nom. Characteristic Impedance:

Impedance (Ohm)  
75

##### Nom. Inductance:

Inductance (µH/m)  
0.354348

##### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)  
55.777

##### Nominal Velocity of Propagation:

VP (%)  
79

##### Nominal Delay:

Delay (ns/m)  
4.23249

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
34.4505

##### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
11.8116

##### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.18116
2	1.54207
5	2.6248
10	3.9372
20	6.562
50	10.4992
100	15.0926
200	21.3265
300	26.248
400	30.5133

##### Other Electrical Characteristic 1:

IEEE 802.4 MAP/IEEE 802.7 Mini-Map

##### Shield Effectiveness:

Description	Freq. (MHz)	Effectiveness (dB)
Unflexed	30	92
After 1.5 million flexes	30	60

##### Minimum Structural Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	400	23

#### Notes (Overall)

Notes: CPE Jacket optional. Flex Life: 1.5 Million cycles @ 6.0" minimum bend radius. For Rockwell authorized Flexible ControlNet order YR28890 (Tinned Copper Braid Version).

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3092F 0101000	1,000 FT	33.000 LB	BLACK		#20 GIFHDLPE DBSH PVC
3092F 0105000	5,000 FT	170.000 LB	BLACK	C	#20 GIFHDLPE DBSH PVC

##### Notes:

C = CRATE REEL PUT-UP.

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