

3094A Coax - ControlBus™ Quad Shielded Coax

 For more Information
 please call

1-800-Belden1

**General Description:**

14 AWG solid bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® IV quad shield (100% coverage), PVC Jacket.

Usage (Overall)

Suitable Applications: RG-11/U Type

Physical Characteristics (Overall)**Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	14	Solid	BCCS - Bare Copper Covered Steel	1.6256

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	7.112

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	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: 10.338 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

Bulk Cable Weight: 87.804 Kg/Km

Max. Recommended Pulling Tension: 1370.046 N

Min. Bend Radius/Minor Axis: 114.300 mm

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

NEC/(UL) Specification: CL2R, CMR

CEC/C(UL) Specification: CMG

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

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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: 11/U

Flame Test

UL Flame Test: UL1666 Riser

CSA Flame Test: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 3095A

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

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)
3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
36.091

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
4.9215

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.52496
2	0.59058
5	0.85306
10	1.24678
20	1.80455
50	2.72323
100	3.83877
200	5.2496
300	6.52919
400	7.5463

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
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METRIC MEASUREMENT VERSION

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1	1.08273
2	1.14835
5	1.44364
10	2.16546
20	2.55918
50	3.24819
100	4.33092
200	6.13547
300	7.51349
400	8.66184

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	400	20

Notes (Overall)

Notes: Sweep tested 5 to 400 MHz. Tap marks every 2.6 Meters to aid users in installation.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3094A F2V1000	305 MT	30.391 KG	GRAY, DEC		#14 GIFHDLDPD DSH PVC
3094A F2V2000	610 MT	61.689 KG	GRAY, DEC	C	#14 GIFHDLDPD DSH PVC
3094A F2V500	152 MT	15.649 KG	GRAY, DEC		#14 GIFHDLDPD DSH PVC

Notes:

C = CRATE REEL PUT-UP.

Test Reports

a) UL

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

b) CSA

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

* other test data may be available if requested at time of order.

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