

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. (in.)
1	14	Solid	BCCS - Bare Copper Covered Steel	.064

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.280

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: 0.407 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 59 lbs/1000 ft.

Max. Recommended Pulling Tension: 308 lbs.

Min. Bend Radius/Minor Axis: 4.500 in.

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 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

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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)

Surface Printing: CONTROLBUS(R) BY BELDEN - 3094A RG-11 TYPE 75C QUAD SHIELD E108998 1C14 (UL) CL2R
OR CMR OR C(UL) CMG

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

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)
1.2

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
11.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.5

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.16
2	.18
5	.26
10	.38
20	.55
50	.83
100	1.17
200	1.60
300	1.99
400	2.30

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.33
2	.35
5	.44
10	.66
20	.78
50	.99
100	1.32
200	1.87
300	2.29
400	2.64

Max. Operating Voltage - UL:

Voltage
300 V RMS

Minimum Structural Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
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		5	400	20
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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	1,000 FT	67.000 LB	GRAY, DEC		#14 GIFHDLDPPE DSH PVC
3094A F2V2000	2,000 FT	136.000 LB	GRAY, DEC	C	#14 GIFHDLDPPE DSH PVC
3094A F2V500	500 FT	34.500 LB	GRAY, DEC		#14 GIFHDLDPPE DSH PVC

Notes:

C = CRATE REEL PUT-UP.

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