

3095A Coax - ControlBus™ Quad Shielded Coax

For more Information
please call

1-800-Belden1

**General Description:**

14 AWG solid bare copper-covered steel conductor, foam FEP insulation, Duobond® IV Quad Shield (100% coverage), fluorocopolymer Jacket.

Usage (Overall)

Suitable Applications: Plenum 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)
FFEP - Foam Fluorinated Ethylene Propylene	7.112

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
PVDF - Fluorocopolymer

Overall Cable

Overall Nominal Diameter: 9.830 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +150°C

Non-UL Temperature Rating: 150°C

Bulk Cable Weight: 101.198 Kg/Km

Max. Recommended Pulling Tension: 1374.490 N

Min. Bend Radius/Minor Axis: 101.600 mm

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

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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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:	11/U

Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

Suitability

Suitability - Outdoor:	Yes
Suitability - Burial:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	3094A

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)
54.1365

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)
12.7959

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.55777
2	0.72182
5	0.91868
10	1.3124
20	1.9686
50	3.9372
100	5.5777

METRIC MEASUREMENT VERSION

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200	8.2025
300	9.97424
400	11.4835

Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1: Tilt 5 to 10 MHz: .42 dB/100 M

Other Electrical Characteristic 2: Tilt 10 to 20 MHz: .58 dB/100 M

Minimum Structural Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	400	20

Phase Delay Distortion:

F/B	%PDD/100M (5MB)	%PDD/100M (10MB)
0.5	-0.60	-1.27
1.0	-0.46	-0.43
1.5	0	0
2.0	+0.17	+0.27
2.5	+0.30	+0.45

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
3095A F2V1000	305 MT	34.473 KG	GRAY, DEC	C	#14 FFEP DBSH PVDF

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.

Revision Number: 1 Revision Date: 04-25-2008

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