

3132A Coax - ControlBus™ Quad Shielded Coax

For more Information
please call

1-800-Belden1

**General Description:**

18 AWG solid bare copper-covered steel conductor, plenum, foam FEP insulation, Duobond® IV quad shield (100% coverage), fluorocopolymer jacket.

Usage (Overall)

Suitable Applications: Plenum RG-6/U Type

Physical Characteristics (Overall)**Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BCCS - Bare Copper Covered Steel	.040

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FFEP - Foam Fluorinated Ethylene Propylene	.170

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: 0.274 in.

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 150°C

Bulk Cable Weight: 43 lbs/1000 ft.

Max. Recommended Pulling Tension: 104 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

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 2011/65/EU (ROHS II):	Yes
IEEE Specification:	802.4 MAP, 802.7 Mini-MAP
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):	04/01/2005
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:	NFPA 262
CSA Flame Test:	FT6

Suitability

Suitability - Outdoor:	Yes
Suitability - Burial:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	3131A

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

Nom. Inductance:

Inductance (μH/ft)
.093

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.3

Nominal Velocity of Propagation:

VP (%)
82

Nominal Delay:

Delay (ns/ft)
1.2

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
28.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
7.2

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.36
2	.38

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5	.50
10	.65
20	.95
50	1.50
100	2.12
200	2.99
300	3.66
400	4.23

Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1:	Tilt 5 to 10 MHz: .48 dB/100 M
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Other Electrical Characteristic 2:	Tilt 10 to 20 MHz: .93 dB/100 M
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Other Electrical Characteristic 3:	Sweep Tested 5 to 400MHz.
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Minimum Structural Return Loss:

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

Phase Delay Distortion:

F/B	%PDD/100M (5MB)	%PDD/100M (10MB)
0.5	-0.54	-1.19
1.0	-0.19	-0.51
1.5	0	0
2.0	+0.16	+0.38
2.5	+0.30	+0.66

Notes (Overall)

Notes: Tap Marks Every 2.6 Meters to aid in users installation.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3132A F2V1000	1,000 FT	36.000 LB	GRAY, DEC	C	#18 FFEP DBSH SLF

Notes:

C = CRATE REEL PUT-UP.

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