

## 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. (mm)
1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

Total Number of Conductors: 1

**Insulation**

Insulation Material:

Insulation Material	Dia. (mm)
FFEP - Foam Fluorinated Ethylene Propylene	4.318

**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: 6.960 mm

**Mechanical Characteristics (Overall)**

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

UL Temperature Rating: 150°C

Bulk Cable Weight: 63.993 Kg/Km

Max. Recommended Pulling Tension: 462.613 N

Min. Bend Radius/Minor Axis: 69.850 mm

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

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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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 &amp; 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/m)
0.305133

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)
53.4803

**Nominal Velocity of Propagation:**

VP (%)
82

**Nominal Delay:**

Delay (ns/m)
3.9372

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
91.868

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
23.6232

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1	1.18116
2	1.24678
5	1.6405
10	2.13265

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20	3.11695
50	4.9215
100	6.95572
200	9.81019
300	12.0085
400	13.8786

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

<b>Other Electrical Characteristic 1:</b>	Tilt 5 to 10 MHz: .48 dB/100 M
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<b>Other Electrical Characteristic 2:</b>	Tilt 10 to 20 MHz: .93 dB/100 M
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<b>Other Electrical Characteristic 3:</b>	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	305 MT	16.329 KG	GRAY, DEC	C	#18 FFEP DBSH SLF

**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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