# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



### 3131A Coax - ControlBus™ Quad Shielded Coax

For more Information please call

1-800-Belden1



## **Description:**

18 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-6/U Type

## **Physical Characteristics (Overall)**

### Conductor

### AWG:

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

### Insulation

### **Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.180

### **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
PVC - Polyvinyl Chloride

### **Overall Cable**

Overall Nominal Diameter: 0.300 in.

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +75°C
Bulk Cable Weight:	33 lbs/1000 ft.
Max. Recommended Pulling Tension:	162 lbs.
Min. Bend Radius (Install)/Minor Axis:	3 in.

## **Applicable Specifications and Agency Compliance (Overall)**

### **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CL2R, CMR
CEC/C(UL) Specification:	CMR
IEEE Specification:	802.4 MAP, 802.7 MIni-MAP
EU CE Mark:	Yes

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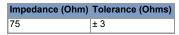
## 3131A Coax - ControlBus™ Quad Shielded Coax

	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:	6/U
Fla	me Test	
	UL Flame Test:	UL1666 Riser
	CSA Flame Test:	FT4
Ple	num/Non-Plenum	
	Plenum (Y/N):	No
	Plenum Number:	3132A

## **Surface Printing (Overall)**

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.35
2	.38
5	.45
10	.59
20	.86
50	1.37
100	1.97
200	2.82
300	3.48
400	4.04

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Other Electrical Characteristic 1: Tilt 5 to 10 MHz: 0.53 dB/100 M

Other Electrical Characteristic 2: Tilt 10 to 20 MHz: 0.89 dB/100 M

### 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	-1.03	-1.58
1.0	-0.30	-0.57
1.5	0	0
2.0	+0.20	+0.40
2.5	+0.40	+0.69

### **Notes (Overall)**

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

### **Related Documents:**

No related documents are available for this product

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3131A F2V1000	1,000 FT	21.000 LB	GRAY, DEC		#18 GIFHDLDPE DBSH PVC

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

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