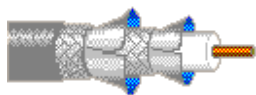


3131A Coax - ControlBus™ Quad Shielded Coax



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.

Suitable Applications (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	0.040

Insulation:

Insulation Material

Ins Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	0.180

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 Cabling:

Overall Nominal Diameter: .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:

NEC/(UL) Specification CL2R, CMR

CEC/C(UL) Specification CMR

IEEE Specification 802.4 MAP, 802.7 Mini-MAP

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

3131A Coax - ControlBus™ Quad Shielded Coax

EU RoHS Compliance Date (mm/dd/yyyy) 01/01/2004

RG Type 6/U

Flame Test:

UL Flame Test UL1666 Riser

CSA Flame Test FT4

Plenum/Non-Plenum:

Plenum (Y/N) N

Plenum Number 3132A

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
 75 +/- 3

Nom. Inductance

Inductance (µH/ft)
 0.097

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
 16.200

Nominal Velocity of Propagation

VP (%)
 82

Nominal Delay

Delay (ns/ft)
 1.200

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
 28.000

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
 3.600

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.350
	2.000			0.380
	5.000			0.450
	10.000			0.590
	20.000			0.860
	50.000			1.370
	100.000			1.970
	200.000			2.820
	300.000			3.480
	400.000			4.040

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)
		5.000	400.000	23.000

Phase Delay Distortion

F/B	%PDD/100M (5MB)	%PDD/100M (10MB)
0.500	-1.030	-1.580
1.000	-0.300	-0.570

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1.500	0.000	0.000
2.000	0.200	0.400
2.500	0.400	0.690

Notes (Overall):

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

PUT UPS AND COLORS:

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

Notes:

Revision Number: 1 Revision Date: 05-14-2007

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