Detailed Specifications & Technical Data

METRIC 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		Stranding	Conductor Material	Dia. (mm)
ı	1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethyler	ne 4.572

Outer Shield

Outer Shield Material:

Layer # Outer Shield Trade Name Type		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: 7.620 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
Bulk Cable Weight:	49.111 Kg/Km
Max. Recommended Pulling Tension:	720.608 N
Min. Bend Radius/Minor Axis:	76.200 mm

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		

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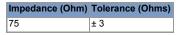
3131A Coax - ControlBus™ Quad Shielded Coax

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):	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
Flame Test	
UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	3132A
EU Directive 2003/11/EC (BFR): CA Prop 65 (CJ for Wire & Cable): MII Order #39 (China RoHS): RG Type: Flame Test UL Flame Test: CSA Flame Test: Plenum/Non-Plenum Plenum (Y/N):	Yes Yes Yes 6/U UL1666 Riser FT4 No

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:

Inductance (μH/m) 0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 53.1522

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) 11.8116

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.14835
2	1.24678
5	1.47645
10	1.93579
20	2.82166
50	4.49497
100	6.46357
200	9.25242
300	11.4179

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400 13.2552

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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3131A F2V1000	305 MT	9.525 KG	GRAY, DEC		#18 GIFHDLDPE DBSH PVC

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

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