Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



3131A Coax - ControlBus™ Quad Shielded Coax

For more Information please call

1-800-Belden1



General 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

Total Number of Conductors: 1

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/Minor Axis:	3 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2R, CMR		
CEC/C(UL) Specification:	CMR		
EU Directive 2011/65/EU (ROHS II):	Yes		

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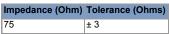
3131A Coax - ControlBus™ Quad Shielded Coax

802.4 MAP, 802.7 MIni-MAP		
Yes		
Yes		
Yes		
01/01/2004		
Yes		
6/U		
UL1666 Riser		
FT4		
No		
3132A		

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



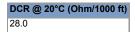
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 3.6

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

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300	3.48	
400	4.04	

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	1,000 FT	21.000 LB	GRAY, DEC		#18 GIFHDLDPE DBSH PVC

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

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