Detailed Specifications & Technical Data



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.

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sage (O	veral	l)					
Suitab	le App	olications	:		RG-	-6/U Type	е
hypical	Char	ootoriot		ш			
nysical	Char	acterist	ics (Overa)			
Conducto	or						
AWG:							
# Coa		Stranding	Conductor Ma	atorial	D	Dia. (mm)	
# COa		-				• •	
1	18	Solid	BCCS - Bare C	Copper Cove	red Steel 1	1.016	
Total	Numbe	er of Cond	luctors:		1		
nsulatio	•						
	-						
Insulation	on Mat	erial:					
Insula	tion Ma	iterial		Dia. (mm)			
Gas-in	iected F	-PE - Foam	Polyethylene 4	4.572			

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Таре	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60
3	Duofoil®	Таре	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

Me	chanical 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 Mlni-MAP

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METRIC MEASUREMENT VERSION

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

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) Tolerance (Ohms) ± 3

75

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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METRIC MEASUREMENT VERSION

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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) 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

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