

7731A Coax - Low Loss Serial Digital Coax



For more Information
please call

1-800-Belden1



Description:

RG-11/U type, 14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	14	Solid	BC - Bare Copper	.064

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.280

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.400 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 87 lbs/1000 ft.

Max. Recommended Pulling Tension: 145 lbs.

Min. Bend Radius/Minor Axis: 4 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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

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EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
RG Type:	11/U

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	7732A

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft)
0.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.0

Nominal Velocity of Propagation:

VP (%)
85

Nominal Delay:

Delay (ns/ft)
1.21

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.5

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.16
3.58	0.29
5	0.34
7	0.39
10	0.46
67.5	1.05
71.5	1.09
88.5	1.21
100	1.28
135	1.47
143	1.51
180	1.69
270	2.09

7731A Coax - Low Loss Serial Digital Coax

360	2.45
540	3.06
720	3.58
750	3.66
1000	4.30
1500	5.50
2000	6.40
2250	6.90
3000	8.20
4500	10.40

Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2: Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	1600.000	23.000
1601.000	4500.000	21.000

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 4.5 GHz.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7731A N3U1000	1,000 FT	95.000 LB	GREEN, MIL	C	#14 PE/GIFHDL DPE SH FRPVC
7731A N3U4000	4,000 FT	388.000 LB	GREEN, MIL	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0011000	1,000 FT	95.000 LB	BROWN		#14 PE/GIFHDL DPE SH FRPVC
7731A 0014000	4,000 FT	388.000 LB	BROWN	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0021000	1,000 FT	95.000 LB	RED	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0024000	4,000 FT	388.000 LB	RED	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0031000	1,000 FT	95.000 LB	ORANGE		#14 PE/GIFHDL DPE SH FRPVC
7731A 0034000	4,000 FT	388.000 LB	ORANGE	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0041000	1,000 FT	95.000 LB	YELLOW		#14 PE/GIFHDL DPE SH FRPVC
7731A 0044000	4,000 FT	388.000 LB	YELLOW	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0061000	1,000 FT	95.000 LB	BLUE, LIGHT		#14 PE/GIFHDL DPE SH FRPVC
7731A 0064000	4,000 FT	388.000 LB	BLUE, LIGHT	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0071000	1,000 FT	95.000 LB	VIOLET	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0074000	4,000 FT	388.000 LB	VIOLET	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0081000	1,000 FT	95.000 LB	GRAY		#14 PE/GIFHDL DPE SH FRPVC
7731A 0084000	4,000 FT	388.000 LB	GRAY	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0091000	1,000 FT	95.000 LB	WHITE		#14 PE/GIFHDL DPE SH FRPVC
7731A 0094000	4,000 FT	388.000 LB	WHITE	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0101000	1,000 FT	95.000 LB	BLACK	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0104000	4,000 FT	388.000 LB	BLACK	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 010500	500 FT	46.500 LB	BLACK	C	#14 PE/GIFHDL DPE SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 08-09-2012

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