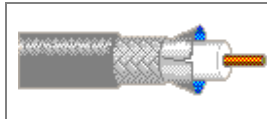


**7731A Coax - Low Loss Serial Digital Coax**



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	0.064

**Insulation:**

Insulation Material

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.280

**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 Cabling:**

Overall Nominal Diameter: .400 in.

**Mechanical Characteristics (Overall):**

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

UL Temperature Rating 75°C

Bulk Cable Weight: 100 lbs/1000 ft.

Max. Recommended Pulling Tension: 145 lbs.

Min. Bend Radius (Install)/Minor Axis: 4 in.

**Applicable Specifications and Agency Compliance (Overall):**

**Applicable Standards:**

NEC/(UL) Specification CMR

CEC/C(UL) Specification CMG

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

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

RG Type 11/U

**Flame Test:**

UL Flame Test UL1666 Vertical Shaft

**Suitability:**

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Suitability - Indoor	Yes
Suitability - Outdoor	Yes - Black only.
Suitability - Aerial	Yes - Black only, when supported by a messenger wire
<b>Plenum/Non-Plenum:</b>	
Plenum (Y/N)	No
Plenum Number	7732A

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

<b>Impedance (Ohm)</b>
75.000

Nom. Inductance

<b>Inductance (µH/ft)</b>
0.097

Nom. Capacitance Conductor to Shield

<b>Capacitance (pF/ft)</b>
16.000

Nominal Velocity of Propagation

<b>VP (%)</b>
85

Nominal Delay

<b>Delay (ns/ft)</b>
1.210

Nom. Conductor DC Resistance

<b>DCR @ 20°C (Ohm/1000 ft)</b>
2.500

Nominal Outer Shield DC Resistance

<b>DCR @ 20°C (Ohm/1000 ft)</b>
1.500

Nom. Attenuation

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.160
3.580	0.290
5.000	0.340
7.000	0.390
10.000	0.460
67.500	1.050
71.500	1.090
88.500	1.210
100.000	1.280
135.000	1.470
143.000	1.510
180.000	1.690
270.000	2.090
360.000	2.450
540.000	3.060
720.000	3.580
750.000	3.660
1000.000	4.300
1500.000	5.500
2000.000	6.400
2250.000	6.900
3000.000	8.200
4500.000	10.400

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Max. Operating Voltage - UL

<b>Voltage</b>
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	850.000	23.000
850.000	3000.000	21.000

**Sweep Test:**

Sweep Testing

100% Sweep tested 5 MHz to 3 GHz.

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7731A 0011000	1,000 FT	95.000 LB	BROWN		#14 PE/GIFHDLDPPE SH FRPVC BRN
7731A 0014000	4,000 FT	388.000 LB	BROWN	C	#14 PE/GIFHDLDPPE SH FRPVC BRN
7731A 0021000	1,000 FT	95.000 LB	RED	C	#14 PE/GIFHDLDPPE SH FRPVC RED
7731A 0024000	4,000 FT	388.000 LB	RED	C	#14 PE/GIFHDLDPPE SH FRPVC RED
7731A 002500	500 FT	46.500 LB	RED		#14 PE/GIFHDLDPPE SH FRPVC RED
7731A 0031000	1,000 FT	95.000 LB	ORANGE		#14 PE/GIFHDLDPPE SH FRPVC ORG
7731A 0034000	4,000 FT	388.000 LB	ORANGE	C	#14 PE/GIFHDLDPPE SH FRPVC ORG
7731A 0041000	1,000 FT	95.000 LB	YELLOW		#14 PE/GIFHDLDPPE SH FRPVC YEL
7731A 0044000	4,000 FT	388.000 LB	YELLOW	C	#14 PE/GIFHDLDPPE SH FRPVC YEL
7731A 0061000	1,000 FT	95.000 LB	BLUE, LIGHT		#14 PE/GIFHDLDPPE SH FRPVC BLULT
7731A 0064000	4,000 FT	388.000 LB	BLUE, LIGHT	C	#14 PE/GIFHDLDPPE SH FRPVC BLULT
7731A 0071000	1,000 FT	95.000 LB	VIOLET	C	#14 PE/GIFHDLDPPE SH FRPVC VIO
7731A 0074000	4,000 FT	388.000 LB	VIOLET	C	#14 PE/GIFHDLDPPE SH FRPVC VIO
7731A 0081000	1,000 FT	95.000 LB	GRAY		#14 PE/GIFHDLDPPE SH FRPVC GRY
7731A 0084000	4,000 FT	388.000 LB	GRAY	C	#14 PE/GIFHDLDPPE SH FRPVC GRY
7731A 0091000	1,000 FT	95.000 LB	WHITE		#14 PE/GIFHDLDPPE SH FRPVC WHT
7731A 0094000	4,000 FT	388.000 LB	WHITE	C	#14 PE/GIFHDLDPPE SH FRPVC WHT
7731A 0101000	1,000 FT	95.000 LB	BLACK	C	#14 PE/GIFHDLDPPE SH FRPVC BLK
7731A 0104000	4,000 FT	388.000 LB	BLACK	C	#14 PE/GIFHDLDPPE SH FRPVC BLK
7731A 010500	500 FT	46.500 LB	BLACK	C	#14 PE/GIFHDLDPPE SH FRPVC BLK
7731A N3U1000	1,000 FT	95.000 LB	NATURAL & YELLOW W/BLUE TAPE	C	#14 PE/GIFHDLDPPE SH FRPVC GRNML
7731A N3U4000	4,000 FT	388.000 LB	NATURAL & YELLOW W/BLUE TAPE	C	#14 PE/GIFHDLDPPE SH FRPVC GRNML

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 5    Revision Date: 05-14-2007

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