

## 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

**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 (Install)/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
EU Directive 2002/96/EC (WEEE):	Yes

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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	11/U
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**Flame Test**

UL Flame Test:	UL1666 Vertical Shaft
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**Suitability**

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes - Black only.
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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Plenum Number:	7732A
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
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75
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**Nom. Inductance:**

Inductance (μH/ft)
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0.097
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**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
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16.0
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**Nominal Velocity of Propagation:**

VP (%)
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85
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**Nominal Delay:**

Delay (ns/ft)
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1.21
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**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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2.5
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**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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1.5
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**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
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1	0.16
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3.58	0.29
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5	0.34
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7	0.39
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10	0.46
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67.5	1.05
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71.5	1.09
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88.5	1.21
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100	1.28
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135	1.47
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143	1.51
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180	1.69
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270	2.09
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360	2.45
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540	3.06
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720	3.58
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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:**

<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	1600.000	23.000
1601.000	4500.000	21.000

**Sweep Test****Sweep Testing:**

100% Sweep tested 5 MHz to 4.5 GHz.

**Related Documents:**

No related documents are available for this product

**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.

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