**ENGLISH MEASUREMENT VERSION** 



## 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	<b>Conductor Material</b>	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 Cabling**

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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	11/U
Flame Test	
UL Flame Test:	UL1666 Vertical Shaft
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Aerial:	Yes - Black only, when supported by a messenger wire
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	7732A

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:



Nom. Capacitance Conductor to Shield:



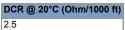
**Nominal Velocity of Propagation:** 



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



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
360	2.45

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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	850	23
850	3000	21

**Sweep Test** 

Sweep Testing: 100% Sweep tested 5 MHz to 3 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	С	#14 PE/GIFHDLDPE SH FRPVC
7731A N3U4000	4,000 FT	388.000 LB	GREEN, MIL	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0011000	1,000 FT	95.000 LB	BROWN		#14 PE/GIFHDLDPE SH FRPVC
7731A 0014000	4,000 FT	388.000 LB	BROWN	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0021000	1,000 FT	95.000 LB	RED	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0024000	4,000 FT	388.000 LB	RED	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0031000	1,000 FT	95.000 LB	ORANGE		#14 PE/GIFHDLDPE SH FRPVC
7731A 0034000	4,000 FT	388.000 LB	ORANGE	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0041000	1,000 FT	95.000 LB	YELLOW		#14 PE/GIFHDLDPE SH FRPVC
7731A 0044000	4,000 FT	388.000 LB	YELLOW	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0061000	1,000 FT	95.000 LB	BLUE, LIGHT		#14 PE/GIFHDLDPE SH FRPVC
7731A 0064000	4,000 FT	388.000 LB	BLUE, LIGHT	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0071000	1,000 FT	95.000 LB	VIOLET	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0074000	4,000 FT	388.000 LB	VIOLET	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0081000	1,000 FT	95.000 LB	GRAY		#14 PE/GIFHDLDPE SH FRPVC
7731A 0084000	4,000 FT	388.000 LB	GRAY	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0091000	1,000 FT	95.000 LB	WHITE		#14 PE/GIFHDLDPE SH FRPVC
7731A 0094000	4,000 FT	388.000 LB	WHITE	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0101000	1,000 FT	95.000 LB	BLACK	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0104000	4,000 FT	388.000 LB	BLACK	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 010500	500 FT	46.500 LB	BLACK	С	#14 PE/GIFHDLDPE SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

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Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications

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