

7731A Coax - Low Loss Serial Digital Coax



For more Information
please call

1-800-Belden1

**General 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
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 Directive 2011/65/EU (ROHS II):	Yes
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
MIL Order #39 (China RoHS):	Yes
RG Type:	11/U

Flame Test

UL Flame Test: UL1666 Vertical Shaft

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CSA Flame Test:	FT4
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Aerial:	Yes - Black only, when supported by messenger wire.
Suitability - Burial:	No
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
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

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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	92.000 LB	GREEN, MIL	C	#14 PE/GIFHDLDP SH FRPVC
7731A N3U4000	4,000 FT	376.000 LB	GREEN, MIL	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0011000	1,000 FT	92.000 LB	BROWN		#14 PE/GIFHDLDP SH FRPVC
7731A 0014000	4,000 FT	376.000 LB	BROWN	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0021000	1,000 FT	92.000 LB	RED	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0024000	4,000 FT	376.000 LB	RED	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0031000	1,000 FT	92.000 LB	ORANGE		#14 PE/GIFHDLDP SH FRPVC
7731A 0034000	4,000 FT	376.000 LB	ORANGE	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0041000	1,000 FT	92.000 LB	YELLOW		#14 PE/GIFHDLDP SH FRPVC
7731A 0044000	4,000 FT	376.000 LB	YELLOW	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0061000	1,000 FT	92.000 LB	BLUE, LIGHT		#14 PE/GIFHDLDP SH FRPVC
7731A 0064000	4,000 FT	376.000 LB	BLUE, LIGHT	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0071000	1,000 FT	92.000 LB	VIOLET	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0074000	4,000 FT	376.000 LB	VIOLET	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0081000	1,000 FT	92.000 LB	GRAY		#14 PE/GIFHDLDP SH FRPVC
7731A 0084000	4,000 FT	376.000 LB	GRAY	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0091000	1,000 FT	92.000 LB	WHITE		#14 PE/GIFHDLDP SH FRPVC
7731A 0094000	4,000 FT	376.000 LB	WHITE	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0101000	1,000 FT	92.000 LB	BLACK	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0104000	4,000 FT	376.000 LB	BLACK	C	#14 PE/GIFHDLDP SH FRPVC
7731A 010500	500 FT	46.500 LB	BLACK	C	#14 PE/GIFHDLDP SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

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