METRIC MEASUREMENT VERSION



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. (mm)
1	14	Solid	BC - Bare Copper	1.6256

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	7.112

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: 10.160 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	129.473 Kg/Km
Max. Recommended Pulling Tension:	644.989 N
Min. Bend Radius/Minor Axis:	101.600 mm

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
MII 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:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



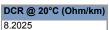
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 4.9215

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.52496
3.58	0.95149
5	1.11554
7	1.27959
10	1.50926
67.5	3.44505
71.5	3.57629
88.5	3.97001
100	4.19968
135	4.82307
143	4.95431
180	5.54489
270	6.85729

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360	8.03845
540	10.0399
720	11.746
750	12.0085
1000	14.1083
1500	18.0455
2000	20.9984
2250	22.6389
3000	26.9042
4500	34.1224

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	305 MT	41.731 KG	GREEN, MIL	С	#14 PE/GIFHDLDPE SH FRPVC
7731A N3U4000	1,219 MT	170.552 KG	GREEN, MIL	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0011000	305 MT	41.731 KG	BROWN		#14 PE/GIFHDLDPE SH FRPVC
7731A 0014000	1,219 MT	170.552 KG	BROWN	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0021000	305 MT	41.731 KG	RED	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0024000	1,219 MT	170.552 KG	RED	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0031000	305 MT	41.731 KG	ORANGE		#14 PE/GIFHDLDPE SH FRPVC
7731A 0034000	1,219 MT	170.552 KG	ORANGE	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0041000	305 MT	41.731 KG	YELLOW		#14 PE/GIFHDLDPE SH FRPVC
7731A 0044000	1,219 MT	170.552 KG	YELLOW	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0061000	305 MT	41.731 KG	BLUE, LIGHT		#14 PE/GIFHDLDPE SH FRPVC
7731A 0064000	1,219 MT	170.552 KG	BLUE, LIGHT	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0071000	305 MT	41.731 KG	VIOLET	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0074000	1,219 MT	170.552 KG	VIOLET	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0081000	305 MT	41.731 KG	GRAY		#14 PE/GIFHDLDPE SH FRPVC
7731A 0084000	1,219 MT	170.552 KG	GRAY	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0091000	305 MT	41.731 KG	WHITE		#14 PE/GIFHDLDPE SH FRPVC
7731A 0094000	1,219 MT	170.552 KG	WHITE	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0101000	305 MT	41.731 KG	BLACK	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 0104000	1,219 MT	170.552 KG	BLACK	С	#14 PE/GIFHDLDPE SH FRPVC
7731A 010500	152 MT	21.092 KG	BLACK	С	#14 PE/GIFHDLDPE SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

Test Reports

i) UL Test Reports are available on-line through the UL Client Document Access web portal. ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

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^{*} other test data may be available if requested at time of order.

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

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