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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: 1

#### 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
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 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
MII Order #39 (China RoHS):	Yes
RG Type:	11/U

#### Flame Test

UL Flame Test: UL1666 Vertical Shaft

## 7731A Coax - Low Loss Serial Digital Coax

CSA Flame Test:	FT4
<b>Suitability</b>	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Aerial:	Yes - Black only, when supported by messenger wire.
Suitability - Burial:	No
<b>Plenum/Non-Plenum</b>	
Plenum (Y/N):	No
Plenum Number:	7732A

### Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

**Impedance (Ohm)**

75

**Nom. Inductance:**

**Inductance (µH/m)**

0.318257

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/m)**

52.496

**Nominal Velocity of Propagation:**

**VP (%)**

85

**Nominal Delay:**

**Delay (ns/m)**

3.97001

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/km)**

8.2025

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/km)**

4.9215

**Nom. Attenuation:**

**Freq. (MHz) Attenuation (dB/100m)**

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.525
3.580	0.951
5.000	1.116
7.000	1.280
10.000	1.509
67.500	3.445
71.500	3.576
88.500	3.970
100.000	4.200
135.000	4.823
143.000	4.954
180.000	5.545
270.000	6.857
360.000	8.038
540.000	10.040
720.000	11.746
750.000	12.008
800.000	12.435
1000.000	14.108
1500.000	18.046
2000.000	20.998
2250.000	22.639
3000.000	26.904
4500.000	34.122

**Max. Operating Voltage - UL:**

**Voltage**

300 V RMS

## METRIC MEASUREMENT VERSION

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

**Other Electrical Characteristic 1:** Impedance tested in accordance with AS 1 M 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#37; 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/GIFHDLDPPE SH FRPVC
7731A N3U4000	4,000 FT	376.000 LB	GREEN, MIL	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0011000	1,000 FT	92.000 LB	BROWN		#14 PE/GIFHDLDPPE SH FRPVC
7731A 0014000	4,000 FT	376.000 LB	BROWN	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0021000	1,000 FT	92.000 LB	RED	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0024000	4,000 FT	376.000 LB	RED	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0031000	1,000 FT	92.000 LB	ORANGE		#14 PE/GIFHDLDPPE SH FRPVC
7731A 0034000	4,000 FT	376.000 LB	ORANGE	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0041000	1,000 FT	92.000 LB	YELLOW		#14 PE/GIFHDLDPPE SH FRPVC
7731A 0044000	4,000 FT	376.000 LB	YELLOW	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0061000	1,000 FT	92.000 LB	BLUE, LIGHT		#14 PE/GIFHDLDPPE SH FRPVC
7731A 0064000	4,000 FT	376.000 LB	BLUE, LIGHT	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0071000	1,000 FT	92.000 LB	VIOLET	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0074000	4,000 FT	376.000 LB	VIOLET	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0081000	1,000 FT	92.000 LB	GRAY		#14 PE/GIFHDLDPPE SH FRPVC
7731A 0084000	4,000 FT	376.000 LB	GRAY	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0091000	1,000 FT	92.000 LB	WHITE		#14 PE/GIFHDLDPPE SH FRPVC
7731A 0094000	4,000 FT	376.000 LB	WHITE	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0101000	1,000 FT	92.000 LB	BLACK	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 0104000	4,000 FT	376.000 LB	BLACK	C	#14 PE/GIFHDLDPPE SH FRPVC
7731A 010500	500 FT	46.500 LB	BLACK	C	#14 PE/GIFHDLDPPE SH FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

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