

7731RW Coax - Stadium Low Loss Serial Digital Coax

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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), water-blocking grease, CPE jacket.

Physical Characteristics (Overall):

Conductor:
AWG

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	14	Solid	BC - Bare Copper	0.064

Total Number of Conductors 1

Insulation:

Insulation Material

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.280

Outer Shield:

Outer Shield Material

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
2		Braid	TC - Tinned Copper	95.000

Outer Shield Flooding Grease Yes

Outer Jacket:

Outer Jacket Material

Outer Jacket Material
CPE - Chlorinated Polyethylene

Overall Cable:

Overall Nominal Diameter: 0.4 in.

Mechanical Characteristics (Overall):

Operating Temperature Range	-40°C To +90°C
UL Temperature Rating	90C
Bulk Cable Weight:	82 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
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

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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
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Suitability:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Sunlight Resistance	Yes

Plenum/Non-Plenum:

Plenum (Y/N)	No
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Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
75

Nom. Inductance

Inductance (µH/ft)
0.097

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
16.000

Nominal Velocity of Propagation

VP (%)
85.000

Nominal Delay

Delay (ns/ft)
1.210

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.500

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
1.500

Nom. Attenuation

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.160
3.580	0.290
5.000	0.340
7.000	0.390
10.000	0.460
67.500	1.050
71.500	1.090
88.500	1.210
100.000	1.280
135.000	1.470
143.000	1.510
180.000	1.690
270.000	1.970
360.000	2.310
540.000	2.870
720.000	3.400
750.000	3.450
800.000	3.600
1000.000	4.120

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1500.000	5.100
2000.000	6.040
2250.000	6.430
3000.000	7.630
4500.000	9.630
6000.000	11.390

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
4501.000	6000.000	15.000

Sweep Test:

Sweep Testing

100% Sweep tested 5 MHz to 6.0 GHz.

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