

**1694RW Coax - Stadium RG-6/U Type Precision Low-Loss Serial Digital Video Coax**

Preview Document. Not Live Data.



For more Information  
please call  
1-800-Belden1



**Description**

18 AWG solid .040" bare copper conductor, gas-injected foam high-density polyethylene insulation, Duofoil® plus tinned copper braid shield (95% coverage), water-blocking grease, CPE jacket.

**Physical Characteristics (Overall):**

**Conductor:**  
AWG

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BC - Bare Copper	0.040

Total Number of Conductors 1

**Insulation:**

Insulation Material

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High-Density Polyethylene	0.180

**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: 0.274 in.

**Mechanical Characteristics (Overall):**

Operating Temperature Range -40°C To +90°C

Bulk Cable Weight: 36 lbs/1000 ft.

Max. Recommended Pulling Tension: 69 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

**Applicable Specifications and Agency Compliance (Overall):**

**Applicable Standards & Environmental Programs:**

NEC/(UL) Specification CMR

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

**1694RW Coax - Stadium RG-6/U Type Precision Low-Loss Serial Digital Video Coax**

CA Prop 65 (CJ for Wire & Cable)	Yes
MII Order #39 (China RoHS)	Yes
RG Type	6/U
Series Type	Series 6

**Flame Test:**

UL Flame Test	UL1666 Vertical Shaft
---------------	-----------------------

**Suitability:**

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Suitability - Aerial	Yes - When supported by messenger wire
Suitability - Burial	No
Sunlight Resistance	Yes

**Plenum/Non-Plenum:**

Plenum (Y/N)	No
--------------	----

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

Impedance (Ohm)
75

Nom. Inductance

Inductance ( $\mu$ H/ft)
0.106

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
16.200

Nominal Velocity of Propagation

VP (%)
82.000

Nominal Delay

Delay (ns/ft)
1.240

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
6.400

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.800

Nom. Attenuation

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.240
3.580	0.440
5.000	0.520
6.000	0.570
7.000	0.610
10.000	0.710
12.000	0.780
25.000	1.080
67.500	1.650
71.500	1.690
88.500	1.860
100.000	1.950
135.000	2.240
143.000	2.300

**1694RW Coax - Stadium RG-6/U Type Precision Low-Loss Serial Digital Video Coax**

180.000	2.570
270.000	3.170
360.000	3.690
540.000	4.500
720.000	5.300
750.000	5.400
1000.000	6.300
1500.000	7.800
2000.000	9.200
2250.000	9.800
3000.000	11.500
4500.000	14.500
6000.000	17.700

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. 75 +/- 1.5 Ohms

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
1600.000	4500.000	21.000
4500.000	6000.000	15.000

**Sweep Test:**

Sweep Testing 100MHz; Sweep tested 5 MHz to 6 GHz.

Revision Number: 0 Revision Date: 09-13-2017

© 2017 Belden, Inc  
 All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).