

## 1694WB Coax - Flooded RG-6/U Type Precision Low-Loss Serial Digital Video Coax



For more Information  
please call

1-800-Belden1

**General Description:**

18 AWG solid .040" bare copper conductor, gas-injected foamed high-density polyethylene insulation, Duofoil® plus tinned copper braid shield (95% coverage), flooding compound, PE jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BC - Bare Copper	1.016

Total Number of Conductors: 1

**Insulation****Insulation Material:**

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foamed High-Density Polyethylene	4.572

**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 Shield Flooding Grease: Yes

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PE - Polyethylene

**Overall Cable**

Overall Nominal Diameter: 6.960 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -40°C To +80°C

Bulk Cable Weight: 53.575 Kg/Km

Max. Recommended Pulling Tension: 306.926 N

Min. Bend Radius/Minor Axis: 69.850 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

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 &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 6/U

Series Type: Series 6

**Suitability**

Suitability - Outdoor: Yes

Suitability - Burial: Yes

Sunlight Resistance: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Surface Printing (Overall)****Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
75

**Nom. Inductance:**

Inductance (µH/m)
0.347786

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)
53.1522

**Nominal Velocity of Propagation:**

VP (%)
82

**Nominal Delay:**

Delay (ns/m)
4.06844

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
20.9984

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
9.1868

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.787
3.580	1.444
5.000	1.706
6.000	1.870
7.000	2.001
10.000	2.330
12.000	2.559
25.000	3.543
67.500	5.414
71.500	5.545
88.500	6.103
100.000	6.398
135.000	7.349
143.000	7.546
180.000	8.432
270.000	10.401
360.000	12.107

## METRIC MEASUREMENT VERSION

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540.000	15.093
720.000	17.652
750.000	18.046
1000.000	21.064
1500.000	26.215
2000.000	30.743
2250.000	32.843
3000.000	38.650
4500.000	48.953

**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	1600	23
1600	4500	21

**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
1694WB 0061000	305 MT	18.144 KG	BLUE, LIGHT		#18 PE/GIFHDPE SH PE
1694WB 0062500	762 MT	44.225 KG	BLUE, LIGHT	C	#18 PE/GIFHDPE SH PE
1694WB 0065000	1,524 MT	86.183 KG	BLUE, LIGHT	C	#18 PE/GIFHDPE SH PE
1694WB 0101000	305 MT	18.144 KG	BLACK		#18 PE/GIFHDPE SH PE
1694WB 0102500	762 MT	44.225 KG	BLACK	C	#18 PE/GIFHDPE SH PE
1694WB 0105000	1,524 MT	86.183 KG	BLACK	C	#18 PE/GIFHDPE SH PE

**Notes:**

C = CRATE REEL PUT-UP.

**Test Reports****a) UL**

- 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.

**b) CSA**

- 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.

\* other test data may be available if requested at time of order.

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