

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



For more Information  
please call

1-800-Belden1



### 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. (in.)
1	18	Solid	BC - Bare Copper	.040

Total Number of Conductors: 1

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foamed 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
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: 0.274 in.

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 35 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

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: 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/ft)

0.106

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.2

### Nominal Velocity of Propagation:

VP (%)

82

### Nominal Delay:

Delay (ns/ft)

1.24

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.4

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.8

### 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
180.000	2.570
270.000	3.170
360.000	3.690

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

540.000	4.600
720.000	5.380
750.000	5.500
1000.000	6.420
1500.000	7.990
2000.000	9.370
2250.000	10.010
3000.000	11.780
4500.000	14.920

**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	1,000 FT	40.000 LB	BLUE, LIGHT		#18 PE/GIFHDPE SH PE
1694WB 0062500	2,500 FT	97.500 LB	BLUE, LIGHT	C	#18 PE/GIFHDPE SH PE
1694WB 0065000	5,000 FT	190.000 LB	BLUE, LIGHT	C	#18 PE/GIFHDPE SH PE
1694WB 0101000	1,000 FT	40.000 LB	BLACK		#18 PE/GIFHDPE SH PE
1694WB 0102500	2,500 FT	97.500 LB	BLACK	C	#18 PE/GIFHDPE SH PE
1694WB 0105000	5,000 FT	190.000 LB	BLACK	C	#18 PE/GIFHDPE SH PE

**Notes:**  
C = CRATE REEL PUT-UP.

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