

## 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 &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/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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