

## 6G SDI 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm 1694A-BR Coax

The 75 ohm BNC male to 75 ohm BNC male cable using 75 ohm 1694A-BR coax, part number FMCA2673/BR, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC cable assembly has a male to male gender configuration with 75 ohm flexible Belden Belden 1694A-BR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2673/BR BNC male to BNC male cable assembly operates to 6 GHz and enables 6Gb/s data transfer rates for high resolution uncompressed video signal transmission. These products offer 4K and Ultra-HD quality signals that meet SMPTE Standard 2081-1.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

### Electrical Specifications

| Description                   | Min          | Typ | Max   | Units                            |
|-------------------------------|--------------|-----|-------|----------------------------------|
| Frequency Range               | DC           |     | 6     | GHz                              |
| VSWR                          |              |     | 1.5:1 |                                  |
| Velocity of Propagation       |              | 82  |       | %                                |
| Group Delay                   | 4.06 [13.32] |     |       | ns/ft [ns/m]                     |
| Capacitance                   | 16.2 [53.15] |     |       | pF/ft [pF/m]                     |
| Inductance                    | 0.347 [1.14] |     |       | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor | 6.4 [21]     |     |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor | 3.8 [12.47]  |     |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Operating Voltage (AC)        |              |     | 300   | Vrms                             |

### Performance by Frequency

| Description           | F1   | F2    | F3    | F4    | F5    | Units |
|-----------------------|------|-------|-------|-------|-------|-------|
| Frequency             | 0.25 | 0.5   | 1     | 2.5   | 6     | GHz   |
| Insertion Loss (Typ.) | 0.03 | 0.043 | 0.063 | 0.103 | 0.177 | dB/ft |
|                       | 0.1  | 0.14  | 0.21  | 0.34  | 0.58  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.1 lbs [45.36 g]

#### Cable

Cable Type Belden Belden 1694A-BR  
 Impedance 75 Ohms  
 Inner Conductor Type Solid



### Configuration:

- BNC Male
- BNC Male
- Belden Belden 1694A-BR

### Features:

- Max Frequency 6 GHz
- 82% Phase Velocity
- PVC Jacket
- Meets SMPTE ST 2081-1
- 6Gb/s Transmission
- Cost Effective

### Applications:

- General Purpose
- Laboratory Use
- 6G-SDI, Video, and Broadband UHDTV
- Broadband Internet Delivery
- Broadcast A/V
- 4K/8K Video Equipment
- Medical Equipment Requiring High Speed Video
- HD Cameras

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|                                      |                    |
|--------------------------------------|--------------------|
| Inner Conductor Material and Plating | Copper, Bare       |
| Dielectric Type                      | PE                 |
| Number of Shields                    | 1                  |
| Shield Layer 1                       | Aluminum Polyester |
| Shield Layer 2                       | Tinned Copper      |
| Jacket Material                      | PVC, Brown         |
| Jacket Diameter                      | 0.274 in [6.96 mm] |

## Connectors

| Description                   | Connector 1     | Connector 2     |
|-------------------------------|-----------------|-----------------|
| Type                          | BNC Male        | BNC Male        |
| Impedance                     | 75 Ohms         | 75 Ohms         |
| Contact Material & Plating    | Brass, Gold     | Brass, Gold     |
| Contact Plating Spec.         | 10 µin minimum  | 10 µin minimum  |
| Dielectric Type               | PTFE            | PTFE            |
| Outer Cond Material & Plating | Brass, Nickel   | Brass, Nickel   |
| Outer Cond Plating Spec.      | 50 µin minimum  | 50 µin minimum  |
| Body Material & Plating       | Brass, Nickel   | Brass, Nickel   |
| Body Plating Spec.            | 100 µin minimum | 100 µin minimum |
| Seal Gasket Material          | Silicone        |                 |

## Environmental Specifications

### Temperature

Operating Range -20 to +75 deg C

## Compliance Certifications (see [product page](#) for current document)

## Plotted and Other Data

Notes:

- Values at 25°C, sea level.

## How to Order

Part Number Configuration:

**FMCA2673/BR - xx uu**

cm = Centimeters

<blank> = Inches

Length

Example: FMCA2673/BR-12 = 12 inches long cable  
 FMCA2673/BR-100cm = 100 cm long cable

6G SDI 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm 1694A-BR Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [6G SDI 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm 1694A-BR Coax FMCA2673/BR](https://www.fairviewmicrowave.com/6g-sdi-75-ohm-bnc-male-to-75-ohm-bnc-male-cable-75-ohm-1694a-br-coax-fmca2673-br)

URL: <https://www.fairviewmicrowave.com/6g-sdi-75-ohm-bnc-male-to-75-ohm-bnc-male-cable-75-ohm-1694a-br-coax-fmca2673-br-p.aspx>

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