

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

The 75 ohm BNC male to 75 ohm HD-BNC male cable using 75 ohm 1694A-BR coax, part number FMCA2674/BR, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to HD-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 FMCA2674/BR BNC male to HD-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
- HD-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	HD-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: **FMCA2674/BR - xx uu**

cm = Centimeters

<blank> = Inches

Length

Example: FMCA2674/BR-12 = 12 inches long cable  
FMCA2674/BR-100cm = 100 cm long cable

6G SDI 75 Ohm BNC Male to 75 Ohm HD-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.

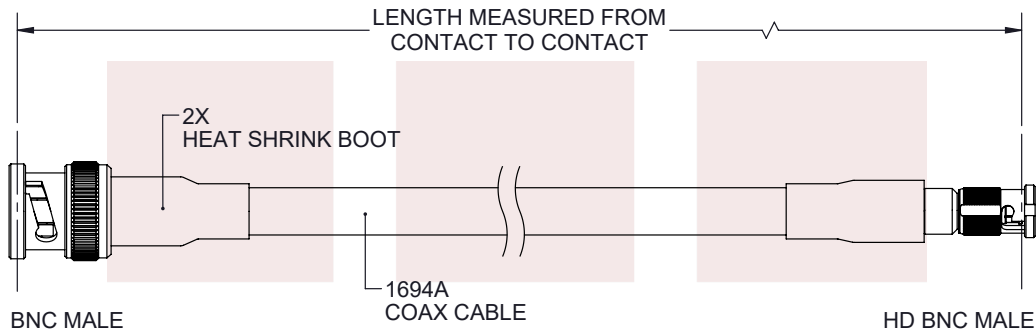
Click the following link to obtain additional part information: [6G SDI 75 Ohm BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 1694A-BR Coax FMCA2674/BR](https://www.fairviewmicrowave.com/6g-sdi-75-ohm-bnc-male-to-75-ohm-hd-bnc-male-cable-75-ohm-1694a-br-coax-fmca2674-br)

URL: <https://www.fairviewmicrowave.com/6g-sdi-75-ohm-bnc-male-to-75-ohm-hd-bnc-male-cable-75-ohm-1694a-br-coax-fmca2674-br-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	4/29/22	AGANWANI



FMCA2674/ZZ (ZZ = CABLE COLOR DESIGNATION)	COAX CABLE COLOR
FMCA2674/BK	BLACK
FMCA2674/BL	BLUE
FMCA2674/BR	BROWN
FMCA2674/GR	GREEN
FMCA2674/GY	GRAY
FMCA2674/OR	ORANGE
FMCA2674/RD	RED
FMCA2674/VL	VIOLET
FMCA2674/WH	WHITE
FMCA2674/YW	YELLOW

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<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		THIRD-ANGLE PROJECTION 	
	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE 6G SDI 75 Ohm BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 1694A-BR Coax	.X = ±.2 [ .51]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1
	.XX = ±.02 [ .51]	ANGLES ± 1°	12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				SCALE N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY HBAKKE	ITEM NO. FMCA2674/ZZ	REV A

T-Rev.D