

## 6G SDI 75 Ohm BNC Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 1694A-RD Coax

The 75 ohm BNC male to 75 ohm 1.0/2.3 male cable using 75 ohm 1694A-RD coax, part number FMCA2675/RD, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to 1.0/2.3 cable assembly has a male to male gender configuration with 75 ohm flexible Belden 1694A-RD coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2675/RD BNC male to 1.0/2.3 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 1694A-RD  
Impedance 75 Ohms  
Inner Conductor Type Solid



### Configuration:

- BNC Male
- 1.0/2.3 Male
- Belden 1694A-RD

### 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, Red
Jacket Diameter	0.274 in [6.96 mm]

## Connectors

Description	Connector 1	Connector 2
Type	BNC Male	1.0/2.3 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, Gold
Outer Cond Plating Spec.	50 µin minimum	3 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: **FMCA2675/RD - xx uu**

cm = Centimeters

<blank> = Inches

Length

Example: FMCA2675/RD-12 = 12 inches long cable  
 FMCA2675/RD-100cm = 100 cm long cable

6G SDI 75 Ohm BNC Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 1694A-RD 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.

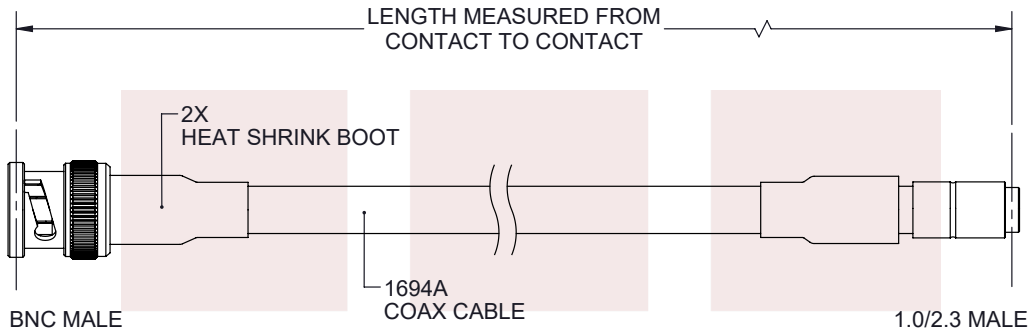
Click the following link to obtain additional part information: [6G SDI 75 Ohm BNC Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 1694A-RD Coax FMCA2675/RD](https://www.fairviewmicrowave.com/6g-sdi-75-ohm-bnc-male-to-75-ohm-1.0-2.3-male-cable-75-ohm-1694a-rd-coax-fmca2675-rd)

URL: <https://www.fairviewmicrowave.com/6g-sdi-75-ohm-bnc-male-to-75-ohm-1.0-2.3-male-cable-75-ohm-1694a-rd-coax-fmca2675-rd-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



FMCA2675/ZZ (ZZ = CABLE COLOR DESIGNATION)	COAX CABLE COLOR
FMCA2675/BK	BLACK
FMCA2675/BL	BLUE
FMCA2675/BR	BROWN
FMCA2675/GR	GREEN
FMCA2675/GY	GRAY
FMCA2675/OR	ORANGE
FMCA2675/RD	RED
FMCA2675/VL	VIOLET
FMCA2675/WH	WHITE
FMCA2675/YW	YELLOW

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<p>TITLE</p> <p>6G SDI 75 Ohm BNC Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 1694A-RD Coax</p>	<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> <p>SCALE N/A</p>	<p>SIZE A</p> <p>CAGE CODE 3FKR5</p> <p>DRAWN BY HBAKKE</p> <p>ITEM NO. FMCA2675/ZZ</p> <p>REV A</p>															

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