

## FMCA2676/OR-120 DATA SHEET

# 6G SDI 75 Ohm HD-BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 1694A-OR Coax in 120 Inch

The 75 ohm HD-BNC male to 75 ohm HD-BNC male 120 inch cable using 75 ohm 1694A-OR coax, part number FMCA2676/OR-120, from Fairview Microwave is instock and ships same day. This Fairview HD-BNC to HD-BNC cable assembly has a male to male gender configuration with 75 ohm flexible Belden 1694A-OR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2676/OR-120 HD-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	Т	ур	Max	ι	Inits	
Frequency Range	DC			6		GHz	
VSWR				1.5:1			
Velocity of Propagation		8	32			%	
Group Delay		4.06	[13.32]		ns/f	t [ns/n	n]
Capacitance		16.2	53.15]		pF/f	t [pF/r	n]
Inductance	0.347	[1.14]		uH/f	t [uH/r	m]	
DC Resistance Inner Cor	6.4	[21]		Ω/100	Oft [Ω/	Km]	
DC Resistance Outer Cor	nductor	3.8 [	12.47]		Ω/100	Oft [Ω/	Km]
Operating Voltage (AC)				300	\	/rms	

## **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.5	0.63	0.83	1.23	1.97	dB

## **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

## **Mechanical Specifications**

## **Cable Assembly**

Length\* 120 in [304.8 cm] Weight 0.3 lbs [136.08 g]

#### Cable

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



## **Configuration:**

- HD-BNC Male
- HD-BNC Male
- Belden 1694A-OR

## 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

Dielectric Type Number of Shields

1 Shield Layer 1 Aluminum Polyester Shield Layer 2 Tinned Copper Jacket Material PVC, Orange 0.274 in [6.96 mm] Jacket Diameter

#### **Connectors**

Description	Connector 1	Connector 2			
Туре	HD-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 & Plati	ng 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	n 100 μin minimum			
Seal Gasket Material	Silicone				

Copper, Bare

PΕ

## **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:

FMCA2676/OR - xx

cm = Centimeters <black> = Inches

Length

Example: FMCA2676/OR-12 = 12 inches long cable

FMCA2676/OR-100cm = 100 cm long cable

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6G SDI 75 Ohm HD-BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 1694A-OR Coax in 120 Inch 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 HD-BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 1694A-OR Coax in 120 Inch FMCA2676/OR-120

URL: https://www.fairviewmicrowave.com/6g-sdi-75-ohm-hd-bnc-male-to-75-ohm-hd-bnc-male-cable-75-ohm-1694a-or-coax-in-120-inch-fmca2676-or-120-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 implem	nent improv	ements.	Fairview	Microw	ave reserve	es the rigl	nt to mal	ke such	changes	as requ	uired.	Unless	othe	rwise
	l specification													
	of the part					purpose,	and Fai	view M	icrowave	does r	not ass	ume a	ny lia	bility
arising ou	t of the use	of any	part or do	cument	ation.									





