

FMCA2604/BK DATA SHEET

12G SDI 75 Ohm HD-BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4694R-BK Coax

The 75 ohm HD-BNC male to 75 ohm HD-BNC male cable using 75 ohm 4694R-BK coax, part number FMCA2604/BK, from Fairview Microwave is in-stock 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 4694R-BK coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2604/BK HD-BNC male to HD-BNC male cable assembly operates to 12 GHz and enables 12Gb/s data transfer rates for high resolution uncompressed video signal transmission. These products offer 4K and Ultra-HD quality signals that meet SMPTE Standard 2082-1.

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	Мах	U	Inits
Frequency Range	DC			12		GHz
VSWR				1.5:1		
Velocity of Propagation		84	4.5			%
Group Delay		1.2	3.94]		ns/f	t [ns/m]
Capacitance		15.9	52.17]		pF/f	t [pF/m]
Inductance		0.106	[0.35]		uH/f	t [uH/m]
DC Resistance Inner Con	ductor	6.4	[21]		Ω/100	0ft [Ω/Km]
DC Resistance Outer Cor	nductor	2.8	9.19]		Ω/100	0ft [Ω/Km]
Operating Voltage (AC)				300	V	/rms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12	GHz
Insertion Loss (Typ.)	0.041	0.059	0.096	0.139	0.23	dB/ft
	0.13	0.19	0.31	0.46	0.75	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

Cable Cable Type Impedance

Inner Conductor Type

0.1 lbs [45.36 g]

Belden 4694R-BK 75 Ohms Solid



Configuration:

- HD-BNC Male
- HD-BNC Male
- Belden 4694R-BK

Features:

- Max Frequency 12 GHz
- 84.5% Phase Velocity
- PVC Jacket
- Meets SMPTE ST 2082-1
- Backwards Compatible with 2081-1
- 12Gb/s Transmission
- Cost Effective

Applications:

- General Purpose
- Laboratory Use
- 12G-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 Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter Copper, Silver HDPE 1 Aluminum Polyester Tinned Copper PVC, Black 0.274 in [6.96 mm]

Connectors

Description	Connector 1	Connector 2	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 min <mark>i</mark> mum	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	Brass, Nickel		
Body Plating Spec.	100 µin minimum	100 µin minimum			
Seal Gasket Material	Silicone				

Environmental Specifications

Temperature Operating Range

-30 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: FMCA2604/BK - xx uu cm = Centimeters <blank> = Inches Length

Example: FMCA2604/BK-12 = 12 inches long cable FMCA2604/BK-100cm = 100 cm long cable

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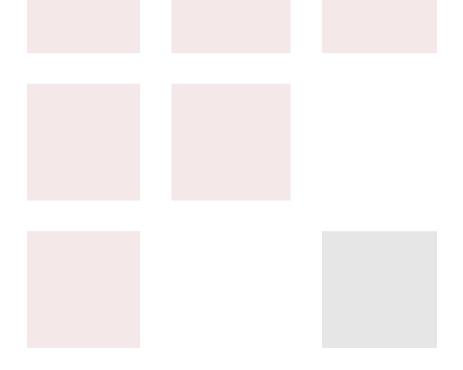


12G SDI 75 Ohm HD-BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4694R-BK Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: 12G SDI 75 Ohm HD-BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4694R-BK Coax FMCA2604/BK

URL: https://www.fairviewmicrowave.com/12g-sdi-75-ohm-hd-bnc-male-to-75-ohm-hd-bnc-male-cable-75-ohm-4694rbk-coax-fmca2604-bk-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.



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