

12G SDI 75 Ohm BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4694R-BK Coax in 36 Inch

The 75 ohm BNC male to 75 ohm HD-BNC male 36 inch cable using 75 ohm 4694R-BK coax, part number FMCA2602/BK-36, from Fairview Microwave is instock and ships same day. This Fairview 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 FMCA2602/BK-36 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	Max	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/n	า]
Capacitance		15.9	52.17]		pF/fi	t [pF/n	n]
Inductance		0.106	[0.35]		uH/f	t [uH/r	n]
DC Resistance Inner Cor	nductor	6.4	[21]		Ω/100	Oft [Ω/I	(m)
DC Resistance Outer Cor	nductor	2.8	[9.19]		Ω/100	Oft [Ω/I	(m]
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.)	0.33	0.38	0.49	0.62	0.89	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* 36 in [914.4 mm] Weight 0.1 lbs [45.36 g]

Cable

Cable Type Belden 4694R-BK Impedance 75 Ohms Inner Conductor Type Solid

FMCA2602/BK-36 DATA SHEET



Configuration:

- 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

Aluminum Polyester Tinned Copper

PVC, Black

0.274 in [6.96 mm]

Connectors

Description Connector 1		Connector 2	
Туре	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

-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:

FMCA2602/BK - xx

cm = Centimeters <blank> = Inches

Length

Example: FMCA2602/BK-12 = 12 inches long cable

FMCA2602/BK-100cm = 100 cm long cable

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12G SDI 75 Ohm BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4694R-BK Coax in 36 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: 12G SDI 75 Ohm BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4694R-BK Coax in 36 Inch FMCA2602/BK-36

URL: https://www.fairviewmicrowave.com/12g-sdi-75-ohm-bnc-male-to-75-ohm-hd-bnc-male-cable-75-ohm-4694r-bk-coax-in-36-inch-fmca2602-bk-36-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part







