

FMCA2602/WH-36 DATA SHEET

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

The 75 ohm BNC male to 75 ohm HD-BNC male 36 inch cable using 75 ohm 4694R-WH coax, part number FMCA2602/WH-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-WH coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2602/WH-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	T	ур	Max	ι	Inits	
Frequency Range	DC			12		GHz	
VSWR				1.5:1			
Velocity of Propagation		84	4.5			%	
Group Delay		1.2 [[3.94]		ns/f	[ns/m]	
Capacitance		15.9 [52.17]		pF/f	[pF/m]	
Inductance	0.106	[0.35]		uH/f	t [uH/m]		
DC Resistance Inner Conductor			6.4 [21]		$\Omega/1000$ ft [$\Omega/$ Km]		
DC Resistance Outer Cor	2.8 [9.19]			Ω/1000ft [Ω/Km]			
Operating Voltage (AC)				300	\	/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-WH Impedance 75 Ohms Inner Conductor Type Solid



Configuration:

- BNC Male
- HD-BNC Male
- Belden 4694R-WH

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 1 Shield Layer 2 Jacket Material Jacket Diameter Copper, Silver

HDPE

Aluminum Polyester Tinned Copper

PVC, White 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 & Platin	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 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/WH - xx

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cm = Centimeters

blank> = Inches

Length

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

FMCA2602/WH-100cm = 100 cm long cable





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

URL: https://www.fairviewmicrowave.com/12g-sdi-75-ohm-bnc-male-to-75-ohm-hd-bnc-male-cable-75-ohm-4694r-wh-coax-in-36-inch-fmca2602-wh-36-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	ent improvements	. Fairview	Microw	ave reserve	es the righ	nt to mak	ke such	changes	as requ	ired. Unle	ss otl	herwise
	specifications are											
	of the part describ				purpose,	and Fair	view M	licrowave	does n	ot assume	any	liability
arising ou	t of the use of any	part or do	cument	ation.								





