

FMCA2602/YW-120 DATA SHEET

12G SDI 75 Ohm BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4694R-YW Coax in 120 Inch

The 75 ohm BNC male to 75 ohm HD-BNC male 120 inch cable using 75 ohm 4694R-YW coax, part number FMCA2602/YW-120, from Fairview Microwave is in-stock 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-YW coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2602/YW-120 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	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	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 Conductor		6.4 [21]		Ω/1000ft [Ω/Km]		
DC Resistance Outer Conductor		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.)	0.61	0.79	1.16	1.59	2.5	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 4694R-YW Impedance 75 Ohms Inner Conductor Type Solid



Configuration:

- BNC Male
- HD-BNC Male
- Belden 4694R-YW

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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter Copper, Silver HDPE

HDPI

Aluminum Polyester Tinned Copper PVC, Yellow

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 minimu	ım 10 µin minimum		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	ng Brass, Nickel	Brass, Nickel		
Outer Cond Plating Spec.	50 μin minimu	ım 50 µin minimum	50 μin minimum	
Body Material & Plating	Brass, Nickel	l Brass, Nickel	Brass, Nickel	
Body Plating Spec.	100 μin minimu	um 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/YW

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- XX

cm = Centimeters

lank> = Inches

Length

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

FMCA2602/YW-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-YW 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: 12G SDI 75 Ohm BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4694R-YW Coax in 120 Inch FMCA2602/YW-120

URL: https://www.fairviewmicrowave.com/12g-sdi-75-ohm-bnc-male-to-75-ohm-hd-bnc-male-cable-75-ohm-4694r-yw-coax-in-120-inch-fmca2602-yw-120-p.aspx







