

6G SDI 75 Ohm HD-BNC Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 1694A-GY Coax in 12 Inch

The 75 ohm HD-BNC male to 75 ohm 1.0/2.3 male 12 inch cable using 75 ohm 1694A-GY coax, part number FMCA2677/GY-12, from Fairview Microwave is instock and ships same day. This Fairview HD-BNC to 1.0/2.3 cable assembly has a male to male gender configuration with 75 ohm flexible Belden 1694A-GY coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2677/GY-12 HD-BNC male to 1.0/2.3 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	U	nits	
Frequency Range	DC			6		GHz	
VSWR				1.5:1			
Velocity of Propagation		3	32			%	
Group Delay		4.06	13.32]		ns/fl	[ns/n	<u>n]</u>
Capacitance		16.2	53.15]		pF/fl	[pF/n	n]
Inductance		0.347	[1.14]		uH/fl	[uH/r	n]
DC Resistance Inner Con	nductor	6.4	[21]		Ω/100	Oft [Ω/I	Km]
DC Resistance Outer Cor	nductor	3.8 [12.47]		Ω/100	Oft [Ω/I	Km]
Operating Voltage (AC)				300	V	rms/	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.23	0.25	0.27	0.31	0.38	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* 12 in [304.8 mm] Weight 0.1 lbs [45.36 g]

Cable

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

FMCA2677/GY-12 DATA SHEET



Configuration:

- HD-BNC Male
- 1.0/2.3 Male
- Belden 1694A-GY

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

Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter

1 Aluminum Polyester Tinned Copper PVC, Gray 0.274 in [6.96 mm]

Connectors

Description	Connector 1	Connector 2
Туре	HD-BNC Male	1.0/2.3 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, Gold
Outer Cond Plating Spec.	50 μin minimum	3 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

-20 to +75 deg C

Copper, Bare

PΕ

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:

FMCA2677/GY - xx

Length

cm = Centimeters

<bla><bla>

Inches

Example: FMCA2677/GY-12 = 12 inches long cable

FMCA2677/GY-100cm = 100 cm long cable

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 $6G\ SDI\ 75\ Ohm\ HD$ -BNC Male to $75\ Ohm\ 1.0/2.3$ Male Cable $75\ Ohm\ 1694A$ -GY Coax in $12\ Inch$ 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 1.0/2.3 Male Cable 75 Ohm 1694A-GY Coax in 12 Inch FMCA2677/GY-12

URL: https://www.fairviewmicrowave.com/6g-sdi-75-ohm-hd-bnc-male-to-75-ohm-1.0-2.3-male-cable-75-ohm-1694a-gy-coax-in-12-inch-fmca2677-gy-12-p.aspx

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







