

12G SDI 75 Ohm HD-BNC Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 4694R-YW Coax in 12 Inch

The 75 ohm HD-BNC male to 75 ohm 1.0/2.3 male 12 inch cable using 75 ohm 4694R-YW coax, part number FMCA2605/YW-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 4694R-YW coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2605/YW-12 HD-BNC male to 1.0/2.3 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 | Typ Max | | Units | | |
|-------------------------------|---------|------------|---------|-----------------|--------|-----------|
| Frequency Range | DC | | | 12 | (| GHz |
| VSWR | | | | 1.5:1 | | |
| Velocity of Propagation | | 84 | 4.5 | | | % |
| Group Delay | | 1.2 | [3.94] | | ns/ft | [ns/m] |
| Capacitance | | 15.9 | [52.17] | | pF/ft | [pF/m] |
| Inductance | | 0.106 | [0.35] | | uH/ft | [uH/m] |
| DC Resistance Inner Conductor | | 6.4 | [21] | | Ω/1000 |)ft [Ω/Km |
| DC Resistance Outer Cor | nductor | 2.8 [9.19] | | Ω/1000ft [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.) | 0.25 | 0.26 | 0.3 | 0.34 | 0.43 | 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 4694R-YW Impedance 75 Ohms

FMCA2605/YW-12 DATA SHEET



Configuration:

- HD-BNC Male
- 1.0/2.3 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

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Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1

Shield Layer 1 Shield Layer 2 Jacket Material

Jacket Diameter

Solid

Copper, Silver

HDPE

1

Aluminum Polyester Tinned Copper

PVC, Yellow

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

-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:

FMCA2605/YW

cm = Centimeters

<

Length

Example: FMCA2605/YW-12 = 12 inches long cable

FMCA2605/YW-100cm = 100 cm long cable





12G SDI 75 Ohm HD-BNC Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 4694R-YW 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: 12G SDI 75 Ohm HD-BNC Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 4694R-YW Coax in 12 Inch FMCA2605/YW-12

URL: https://www.fairviewmicrowave.com/12g-sdi-75-ohm-hd-bnc-male-to-75-ohm-1.0-2.3-male-cable-75-ohm-4694r-yw-coax-in-12-inch-fmca2605-yw-12-p.aspx







