

## 12G SDI 75 Ohm HD-BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4855R-RD Coax in 72 Inch

The 75 ohm HD-BNC male to 75 ohm HD-BNC male 72 inch cable using 75 ohm 4855R-RD coax, part number FMCA2607/RD-72, from Fairview Microwave is in-stock and ships same day. This Fairview HD-BNC to HD-BNC cable assembly has a male to male gender configuration with 75 ohm flexible Belden 4855R-RD coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2607/RD-72 HD-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 | Typ          | Max   | Units   |
|-------------------------------|-----|--------------|-------|---|
| Frequency Range               | DC  |              | 12    | GHz   |
| VSWR                          |     |              | 1.5:1 |   |
| Velocity of Propagation       |     | 82           |       | %   |
| Group Delay                   |     | 1.24 [4.07]  |       | ns/ft [ns/m]                                  |
| Capacitance                   |     | 16.3 [53.48] |       | pF/ft [pF/m]                                  |
| Inductance                    |     | 0.107 [0.35] |       | uH/ft [uH/m]                                  |
| DC Resistance Inner Conductor |     | 19.7 [64.63] |       | $\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ] |
| DC Resistance Outer Conductor |     | 3.9 [12.8]   |       | $\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ] |
| Operating Voltage (AC)        |     |              | 300   | Vrms  |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.5  | 1    | 2.5  | 5    | 12   | GHz   |
| Insertion Loss (Typ.) | 0.45 | 0.56 | 0.78 | 1.04 | 1.58 | 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\* 72 in [182.88 cm]  
Weight 0.15 lbs [68.04 g]

#### Cable

Cable Type Belden 4855R-RD  
Impedance 75 Ohms



### Configuration:

- HD-BNC Male
- HD-BNC Male
- Belden 4855R-RD

### Features:

- Max Frequency 12 GHz
- 82% 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                 | Solid              |
| Inner Conductor Material and Plating | Copper, Silver     |
| Dielectric Type                      | HDPE               |
| Number of Shields                    | 1                  |
| Shield Layer 1                       | Aluminum Polyester |
| Shield Layer 2                       | Tinned Copper      |
| Jacket Material                      | PVC, Red           |
| Jacket Diameter                      | 0.159 in [4.04 mm] |

### Connectors

| Description                   | Connector 1   | Connector 2   |
|-------------------------------|---------------|---------------|
| Type                          | HD-BNC Male   | HD-BNC Male   |
| Impedance                     | 75 Ohms       | 75 Ohms       |
| Contact Material & Plating    | Brass, Gold   | Brass, Gold   |
| Contact Plating Spec.         | 10 µin        | 10 µin        |
| Dielectric Type               | PTFE          | PTFE          |
| Outer Cond Material & Plating | Brass, Nickel | Brass, Nickel |
| Outer Cond Plating Spec.      | 100 µin       | 100 µin       |
| Body Material & Plating       | Brass, Nickel | Brass, Nickel |
| Body Plating Spec.            | 100 µin       | 100 µin       |
| 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:

**FMCA2607/RD - xx uu**

cm = Centimeters  
<blank> = Inches

Length

Example: FMCA2607/RD-12 = 12 inches long cable  
FMCA2607/RD-100cm = 100 cm long cable

12G SDI 75 Ohm HD-BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4855R-RD Coax in 72 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.

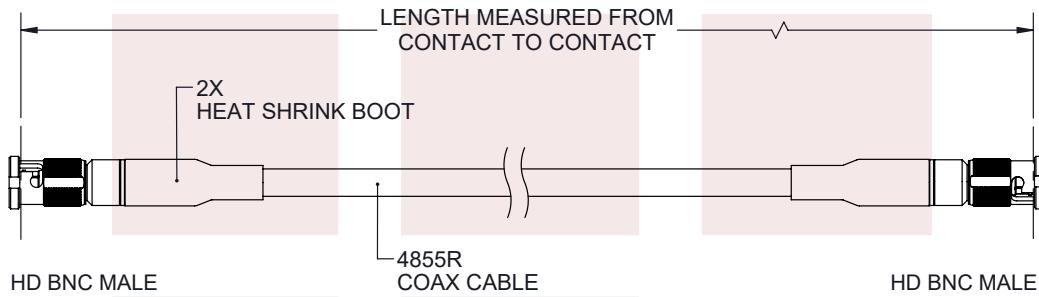
Click the following link to obtain additional part information: [12G SDI 75 Ohm HD-BNC Male to 75 Ohm HD-BNC Male Cable 75 Ohm 4855R-RD Coax in 72 Inch FMCA2607/RD-72](https://www.fairviewmicrowave.com/12g-sdi-75-ohm-hd-bnc-male-to-75-ohm-hd-bnc-male-cable-75-ohm-4855r-rd-coax-in-72-inch-fmca2607-rd-72)

URL: <https://www.fairviewmicrowave.com/12g-sdi-75-ohm-hd-bnc-male-to-75-ohm-hd-bnc-male-cable-75-ohm-4855r-rd-coax-in-72-inch-fmca2607-rd-72-p.aspx>

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| REVISIONS |                 |         |          |
|-----------|-----------------|---------|----------|
| REV.      | DESCRIPTION     | DATE    | APPROVED |
| A         | INITIAL RELEASE | 4/29/22 | AGANWANI |



| FMCA2607/ZZ<br>(ZZ = CABLE COLOR DESIGNATION) | COAX CABLE COLOR |
|---|------------------|
| FMCA2607/BK                                   | BLACK            |
| FMCA2607/BL                                   | BLUE             |
| FMCA2607/GR                                   | GREEN            |
| FMCA2607/OR                                   | ORANGE           |
| FMCA2607/RD                                   | RED              |
| FMCA2607/VL                                   | VIOLET           |
| FMCA2607/WH                                   | WHITE            |
| FMCA2607/YW                                   | YELLOW           |

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|  | TOLERANCES:   |   | CABLE LENGTH (L) TOLERANCES:  |       |
| TITLE<br><br>12G SDI 75 Ohm HD-BNC Male to 75 Ohm HD-BNC<br>Male Cable 75 Ohm 4855R-RD Coax in 72 Inch | .X = ±.2 [5.08] FRACTIONS   | L ≤ 12 [305] = +1 [25] / -0                 | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. |       |
|  | .XX = ±.02 [.51] ± 1/32   | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0     |   |       |
|  | .XXX = ±.005 [.13] ANGLES ± 1°  | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  | SHEET 1 OF 1  |       |
|  |   | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 | SCALE N/A   |       |
|  |   | 300 [7620] < L = +5%L / -0                  | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.  |       |
| SIZE A   | CAGE CODE 3FKR5   | DRAWN BY HBAKKE                             | ITEM NO. FMCA2607/ZZ  | REV A |

T-Rev.D