

FMCA3163-48 **DATA SHEET**

SHV Jack Bulkhead to SHV Jack Bulkhead Cable RG223 Coax in 48 Inch

The SHV jack bulkhead to SHV jack bulkhead 48 inch cable using RG223 coax, part number FMCA3163-48, from Fairview Microwave is in-stock and ships same day. This Fairview SHV to SHV cable assembly has a jack to jack gender configuration with 50 ohm flexible RG223 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3163-48 SHV jack to SHV jack cable assembly operates to 300 MHz. Our RF cable assembly with SHV bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness. Safety high voltage connectors are designed to allow signal transmission with high voltage ratings without safety risk for the operators. Both the pin and socket contacts are securely recessed inside the insulation to quard against potential electrical shock when live unmated connectors are handled.

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	Тур	Max	Units
Frequency Range	DC		300	MHz
Velocity of Propagation		66		%
Capacitance		30.8 [101.0	5]	pF/ft [pF/m]
Operating Voltage (AC)			1,900	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	300			MHz
Insertion Loss (Typ.)	0.36	0.45	0.48			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* 48 in [121.92 cm] Weight 0.152 lbs [68.95 q]

Cable

Cable Type RG223 50 Ohms **Impedance** Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver

Dielectric Type



Configuration:

- SHV Jack Bulkhead
- SHV Jack Bulkhead
- RG223

Features:

- Max Frequency 300 MHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket
- Dielectric withstanding of 5kV
- Shock, Moisture & Corrosion resistant
- Recessed contacts prevent shock hazards

Applications:

- General Purpose
- Laboratory Use
- Nuclear Instrumentation
- High Voltage Electrical Transmis-
- Semiconductor Test

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





Number of Shields

Shield Layer 1 Silver Plated Copper Braid Shield Layer 2 Silver Plated Copper Braid

Jacket Material PVC, Black

Jacket Diameter 0.209 in [5.31 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2	
Туре	SHV Jack	SHV Jack	
Mount Method	Bulkhead	Bulkhead	
Specification	MIL-STD-348E	MIL-STD-348B	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Brass, Gold over Nickel or	ver copperBrass, Gold over Nic	
Dielectric Type	Teflon	Teflon	
Body Material & Plating	Brass, Tinned Cop	per Brass, Tinned Coppe	
Coupling Nut Material & Pla	ting Brass, Tinned Cop	per Brass, Tinned Coppe	
Hex Size	7/16 Inch	7/16 Inch	

Environmental Specifications

Temperature

Operating Range -40 to +80 deg C

Ingress Protection (IP) Rating IP67 Rated

Compliance Certifications (see product page for current document)



Notes:

How to Order

Part Number Configuration:

FMCA3163 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA3163-12 = 12 inches long cable

FMCA3163-100cm = 100 cm long cable

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

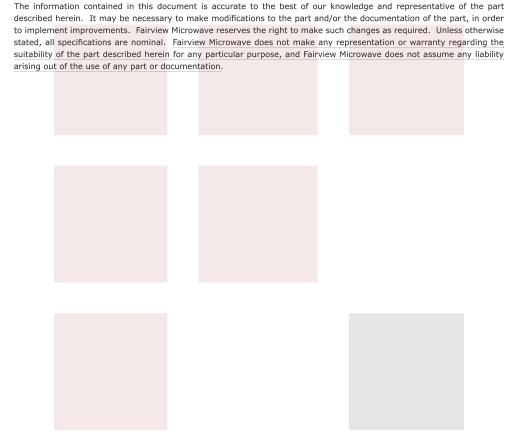




SHV Jack Bulkhead to SHV Jack Bulkhead Cable RG223 Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: SHV Jack Bulkhead to SHV Jack Bulkhead Cable RG223 Coax in 48 Inch FMCA3163-48

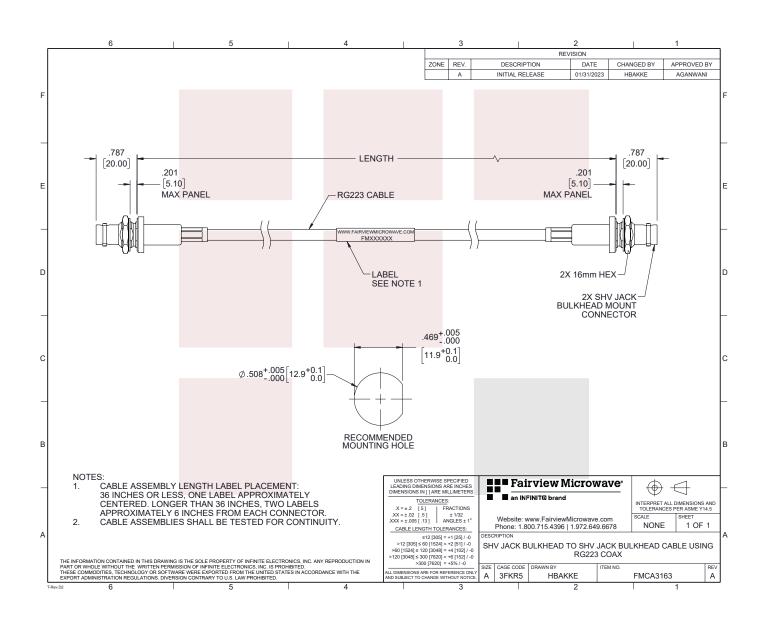
URL: https://www.fairviewmicrowave.com/shv-jack-bulkhead-to-shv-jack-bulkhead-cable-rg223-coax-in-48-inch-fm-ca3163-48-p.aspx



301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







SHV Jack Bulkhead to SHV Jack Bulkhead Cable RG223 Coax in 48 Inch

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689