

RA SHV Plug to RA SHV Plug Cable 75 Ohm RG-59 Black Coax

The RA SHV plug to RA SHV plug cable using 75 ohm RG-59 coax, part number FMCA3147, from Fairview Microwave is in-stock and ships same day. This Fairview SHV to SHV cable assembly has a plug to plug gender configuration with 75 ohm flexible RG59 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3147 SHV plug to SHV plug cable assembly operates to 300 MHz. The right angle SHV interfaces on the RG59 cable allow for easier connections in tight spaces. 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 guard 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 | Typ | Max | Units |
|-------------------------|-----|--------------|-------|--------------|
| Frequency Range | DC | | 300 | MHz |
| Velocity of Propagation | | 66 | | % |
| Capacitance | | 20.4 [66.93] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 2,300 | Vrms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|----|----|-------|
| Frequency | 100 | 250 | 300 | | | MHz |
| Insertion Loss (Max.) | 0.038 | 0.059 | 0.064 | | | dB/ft |
| | 0.12 | 0.19 | 0.21 | | | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]
 Weight 0.158 lbs [71.67 g]

Cable

Cable Type RG59
 Impedance 75 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel
 Dielectric Type PE
 Number of Shields 1



Configuration:

- SHV Plug Right Angle
- SHV Plug Right Angle
- RG59

Features:

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

Applications:

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

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Shield Layer 1 Copper Braid
Jacket Material PVC (NC), Black
Jacket Diameter 0.242 in [6.15 mm]

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|-------------------------------------|-------------------------------------|
| Type | SHV Plug | SHV Plug |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Gold over Nickel over copper | Brass, Gold over Nickel over copper |
| Dielectric Type | Teflon | Teflon |
| Body Material & Plating | Brass, Tinned Copper | Brass, Tinned Copper |
| Coupling Nut Material & Plating | Brass, Tinned Copper | Brass, Tinned Copper |
| Hex Size | 7/16 Inch | 7/16 Inch |

Environmental Specifications

Temperature
Operating Range -25 to +70 deg C

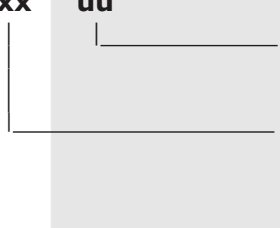
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FMCA3147 - xx uu**



cm = Centimeters
<blank> = Inches

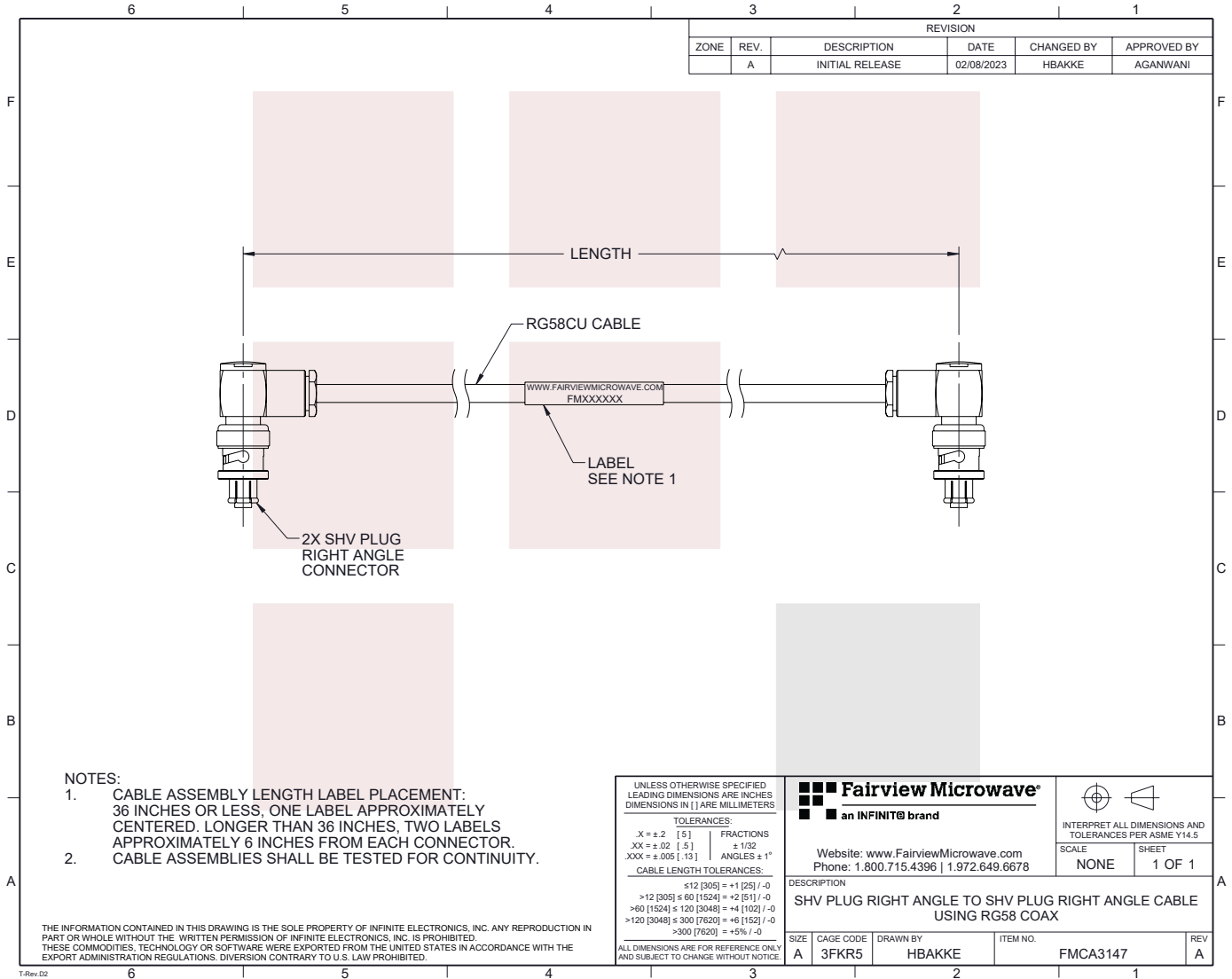
Example: FMCA3147-12 = 12 inches long cable
FMCA3147-100cm = 100 cm long cable

RA SHV Plug to RA SHV Plug Cable 75 Ohm RG-59 Black Coax 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: [RA SHV Plug to RA SHV Plug Cable 75 Ohm RG-59 Black Coax FMCA3147](#)

URL: <https://www.fairviewmicrowave.com/ra-shv-plug-to-ra-shv-plug-cable-75-ohm-rg59-black-coax-fmca3147-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



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