

FMCA3150-12 DATA SHEET

RA SHV Plug to RA SHV Plug Cable 75 Ohm RG-59 Black Coax in 12 Inch

The RA SHV plug to RA SHV plug 12 inch cable using 75 ohm RG-59 coax, part number FMCA3150-12, 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 FMCA3150-12 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	Ту	р Мах	Units
Frequency Range	DC		300	MHz
Velocity of Propagation		6	6	%
Capacitance		20.4 [6	56.93]	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.)	0.44	0.46	0.47	·		dB

Cable Assembly

Jacket Diameter

Mechanical Specifications

Length* 12 in [304.8 mm] Weight 0.484 lbs [219.54 g]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Jacket Material

RG59 75 Ohms Solid

Copper Clad Steel

PE 1

Copper Braid PVC (NC), Black 0.242 in [6.15 mm]



Configuration:

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

Features:

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

Applications:

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

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Connectors

Description	Connector 1		Conne	Connector 2	
Туре	S	SHV Plug		SHV Plug	
Specification	MIL-	STD-348B	MIL-ST	ΓD-348B	
Impedance	5	0 Ohms	50 (Ohms	
Contact Material & Plating	Brass, Gold ov	er Nickel over o	copperBrass, Go	old over Nickel	
Dielectric Type		Teflon	Te	flon	
Body Material & Plating	Brass, Tinned Copper		Brass, Tin	Brass, Tinned Copper	
Coupling Nut Material & Plating Brass, Tinned Copper		Brass, Tin	Brass, Tinned Copper		

Environmental Specifications

Temperature

Operating Range

-25 to +70 deg C

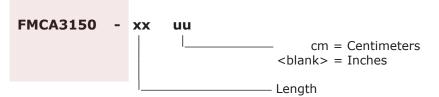
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:



Example: FMCA3150-12 = 12 inches long cable

FMCA3150-100cm = 100 cm long cable

RA SHV Plug to RA SHV Plug Cable 75 Ohm RG-59 Black 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: RA SHV Plug to RA SHV Plug Cable 75 Ohm RG-59 Black Coax in 12 Inch FMCA3150-12

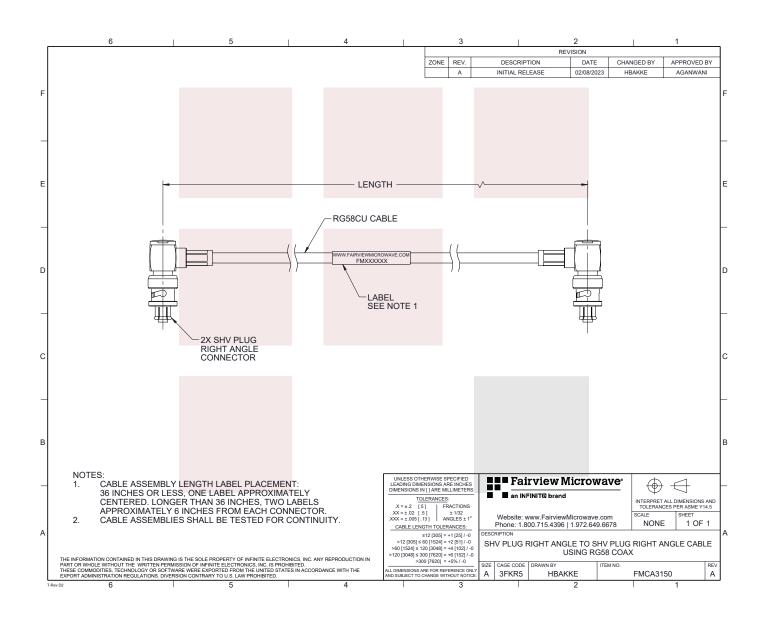
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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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