

FMCA3160 DATA SHEET

RA SHV Plug to RA SHV Plug Cable RG-214 Coax

The RA SHV plug to RA SHV plug cable using RG-214 coax, part number FMCA3160, 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 50 ohm flexible RG214 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3160 SHV plug to SHV plug cable assembly operates to 300 MHz. The right angle SHV interfaces on the RG214 cable allow for easier connections in tight spaces. 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 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	Тур	Max	Units
Frequency Range	DC	71	300	MHz
Velocity of Propagation		66		%
Capacitance		30.8 [101.	05]	pF/ft [pF/m]
Operating Voltage (AC)			3,500	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	300			MHz
Insertion Loss (Typ.)	0.02	0.029	0.032			dB/ft
	0.07	0.1	0.1			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 0.29 lbs [131.54 g]

Cable

Cable Type RG214
Impedance 50 Ohms
Inner Conductor Type Stranded
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PE
Number of Shields 2



Configuration:

- SHV Plug Right Angle
- SHV Plug Right Angle
- RG214

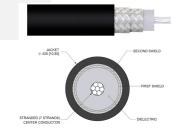
Features:

- 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 Transmission
- Semiconductor Test

Cable Diagram:



Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

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Shield Layer 1 Silver Plated Copper Braid Silver Plated Copper Braid

Jacket Material PVC, Black

Jacket Diameter 0.425 in [10.8 mm]

Repeated Minimum Bend Radius

1.6 in [40.64 mm]

Connectors

Description	Connector 1	Connector 2	
Туре	SHV Plug	SHV Plug	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Brass, Gold over Nickel ov	er copperBrass, Gold over Nicke	
Dielectric Type	Teflon	Teflon	
Body Material & Plating	Brass, Tinned Copp	per Brass, Tinned Copper	
Coupling Nut Material & Pla	ting Brass, Tinned Copp	per Brass, Tinned Copper	

Environmental Specifications

TemperatureOperating Range

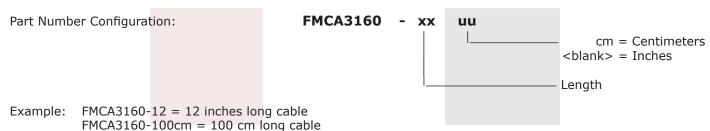
-20 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order



RA SHV Plug to RA SHV Plug Cable RG-214 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 RG-214 Coax FMCA3160

URL: https://www.fairviewmicrowave.com/ra-shv-plug-to-ra-shv-plug-cable-rg214-coax-fmca3160-p.aspx

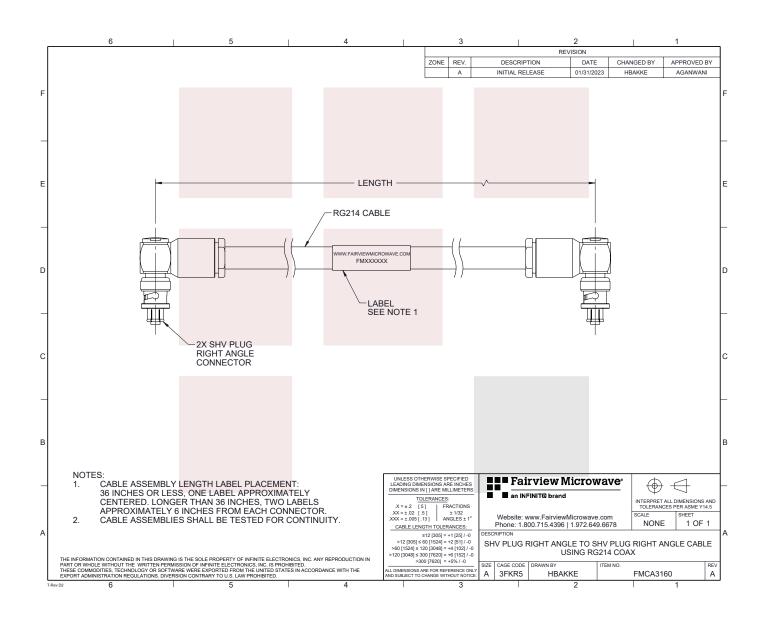
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to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