

RA SHV Plug to RA SHV Plug Cable RG-214 Coax in 48 Inch

The RA SHV plug to RA SHV plug 48 inch cable using RG-214 coax, part number FMCA3160-48, 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 FMCA3160-48 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 | Typ | Max | Units |
|-------------------------|------|----------|-------|--------------|
| Frequency Range | DC | | 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.) | 0.48 | 0.52 | 0.53 | | | 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 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|---------|---------------------|
| Length* | 48 in [121.92 cm] |
| Weight | 0.24 lbs [108.86 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 |
| Shield Layer 1 | Silver Plated Copper Braid |



Configuration:

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

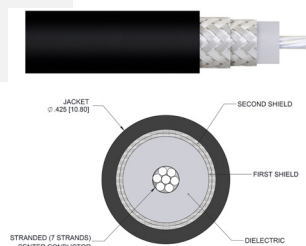
Features:

- 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:



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| | |
|-----------------|----------------------------|
| Shield Layer 2 | 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 |
|---------------------------------|-------------------------------------|-------------------------------------|
| 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 |

Environmental Specifications

Temperature

| | |
|-----------------|------------------|
| Operating Range | -20 to +80 deg C |
|-----------------|------------------|

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA3160 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMCA3160-12 = 12 inches long cable
 FMCA3160-100cm = 100 cm long cable

RA SHV Plug to RA SHV Plug Cable RG-214 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: [RA SHV Plug to RA SHV Plug Cable RG-214 Coax in 48 Inch FMCA3160-48](#)

URL: <https://www.fairviewmicrowave.com/ra-shv-plug-to-ra-shv-plug-cable-rg214-coax-in-48-inch-fmca3160-48-p.aspx>

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