

## 10KV Male to MHV Male Cable RG303HV Coax

The 10KV male to MHV male cable using RG303HV coax, part number FMCA9775, from Fairview Microwave is in-stock and ships same day. This Fairview 10KV to MHV cable assembly has a male to male gender configuration with 50 ohm RG303HV coax. Our 10KV high voltage RF cable assemblies are designed to handle higher voltages and minimize the risk of electric shock. Both the connectors used in this cable assemblies have recessed contact design to withstand unmated higher voltage. These cable assemblies are commonly used in applications where high voltage transmission and RF signal integrity are critical. These cable assemblies are constructed with high-quality insulation materials capable of withstanding higher voltages, ensuring safety and preventing electrical breakdown. Our cable assemblies are built with durable and flexible materials to withstand harsh environmental conditions and repetitive movements, ensuring reliable performance over extended periods.

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 |
|-------------------------|-----|-----|--------|-------|
| Velocity of Propagation |     | 69  |        | %     |
| Operating Voltage (DC)  |     |     | 10,000 | Vdc   |
| Test Voltage (DC)       |     |     | 15,000 | V     |

Electrical Specification Notes:  
Values at 25°C, sea level.

### Mechanical Specifications

#### Cable Assembly

Weight 0.0865 lbs [39.24 g]

#### Cable

Cable Type RG303HV  
 Impedance 50 Ohms  
 Inner Conductor Material and Plating Silver, Copper Clad Aluminum  
 Dielectric Type FEP  
 Number of Shields 1  
 Jacket Material FEP  
 Jacket Diameter 0.169 in [4.29 mm]  
 Repeated Minimum Bend Radius 0.788 in [20.02 mm]



### Configuration:

- 10KV Male
- MHV Male
- RG303HV

### Features:

- 69% Phase Velocity
- FEP Jacket
- Voltage rating of 10kV
- Recessed Contacts

### Applications:

- General Purpose
- Laboratory Use
- High voltage power supplies/Amplifiers
- Nuclear instrumentation
- Test and measurement equipment

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**Connectors**

| Description                     | Connector 1                      | Connector 2      |
|---------------------------------|----------------------------------|------------------|
| Type                            | 10KV Male                        | MHV Male Bayonet |
| Specification                   | MIL-STD-202                      | MIL-STD-348A     |
| Impedance                       | 50 Ohms                          | 50 Ohms          |
| Contact Material & Plating      | Beryllium Copper, Gold/Tri-Metal | Brass, Gold      |
| Contact Plating Spec.           |                                  | 30 µin minimum   |
| Dielectric Type                 | PE (HD)                          | PTFE             |
| Body Material & Plating         | Brass, Nickel Over Copper        | Brass, Nickel    |
| Body Plating Spec.              |                                  | 100 µin minimum  |
| Coupling Nut Material & Plating | Brass, Nickel Over Copper        | Brass, Nickel    |
| Coupling Nut Plating Spec.      |                                  | 100 µin minimum  |

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

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**FMCA9775 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA9775-12 = 12 inches long cable  
 FMCA9775-100cm = 100 cm long cable

10KV Male to MHV Male Cable RG303HV 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: [10KV Male to MHV Male Cable RG303HV Coax FMCA9775](#)

URL: <https://www.fairviewmicrowave.com/10kv-male-to-mhv-male-cable-rg303hv-coax-fmca9775-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.

