

## 10KV Male to MHV Male Cable RG303HV Coax in 48 Inch



### FMCA9775-48

#### Configuration

- Connector 1: 10KV Male
- Connector 2: MHV Male
- Cable Type: RG303HV

#### Features

- 69% Phase Velocity
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

The 10KV male to MHV male 48 inch cable using RG303HV coax, part number FMCA9775-48, 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             | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|-------|
| Velocity of Propagation |         | 69      |         | %     |
| Operating Voltage (DC)  |         |         | 700     | Vdc   |
| Test Voltage (DC)       |         |         | 2,500   | V     |

Electrical Specification Notes:

Values at 25°C, sea level. Maximum Test Voltage of MHV is 2500.

#### Mechanical Specifications

##### Cable Assembly

|                |                      |
|----------------|----------------------|
| Length         | 48 in [121.92 cm]    |
| Width/Diameter | 0.5 in [12.7 mm]     |
| Weight         | 0.0865 lbs [39.24 g] |

##### Cable

|            |         |
|------------|---------|
| Cable Type | RG303HV |
|------------|---------|

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|                                      |                              |
|--------------------------------------|------------------------------|
| 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]          |

### Connectors

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

### Environmental Specifications

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

### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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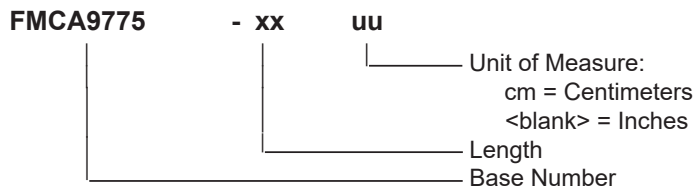


### FMCA9775-48

#### Typical Performance Data

#### How to Order

Part Number Configuration:



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

10KV Male to MHV Male Cable RG303HV Coax in 48 Inch from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [10KV Male to MHV Male Cable RG303HV Coax in 48 Inch FMCA9775-48](https://www.fairviewmicrowave.com/10kv-male-to-mhv-male-cable-rg303hv-coax-in-48-inch-fmca9775-48)

URL: <https://www.fairviewmicrowave.com/10kv-male-to-mhv-male-cable-rg303hv-coax-in-48-inch-fmca9775-48-p.aspx>

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# FMCA9775-48 CAD Drawing

10KV Male to MHV Male Cable RG303HV Coax in 48 Inch

