

## 20KV Male to MHV Male Cable RG213HV Coax in 24 Inch



### FMCA9769-24

#### Configuration

- Connector 1: 20KV Male
- Connector 2: MHV Male
- Cable Type: RG213HV

#### Features

- 69% Phase Velocity
- polyurethane Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

The 20KV male to MHV male 24 inch cable using RG213HV coax, part number FMCA9769-24, from Fairview Microwave is in-stock and ships same day. This Fairview 20KV to MHV cable assembly has a male to male gender configuration with 50 ohm RG213HV coax. Our 20kV 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		%

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

#### Mechanical Specifications

##### Cable Assembly

Length	24 in [609.6 mm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.168 lbs [76.2 g]

##### Cable

Cable Type	RG213HV
Impedance	50 Ohms
Inner Conductor Material and Plating	Copper, Bare

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Dielectric Type	PE
Number of Shields	1
Jacket Material	polyurethane
Jacket Diameter	0.394 in [10.01 mm]
Repeated Minimum Bend Radius	1.969 in [50.01 mm]

### Connectors

Description	Connector 1	Connector 2
Type	20KV Male	MHV Male
Specification	MIL-STD-202	MIL-STD-202
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold/Tri-Metal	Silver
Contact Plating Specification		QQ-S-365
Dielectric Type	PE (HD)	PTFE
Body Material and Plating	Brass, Tinned Copper	Brass, Nickel
Body Plating Specification		QQ-N-290
Coupling Nut Material and Plating	Brass, Tinned Copper	Brass, Nickel
Coupling Nut Plating Specification		QQ-N-290

### 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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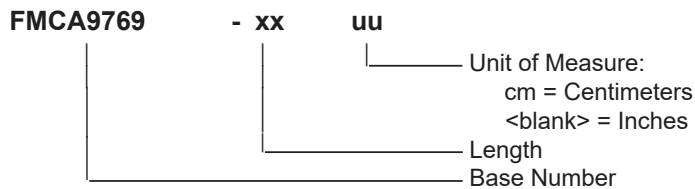


### FMCA9769-24

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: FMCA9769-12 = 12 inches long cable  
FMCA9769-100cm = 100 cm long cable

20KV Male to MHV Male Cable RG213HV Coax in 24 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.

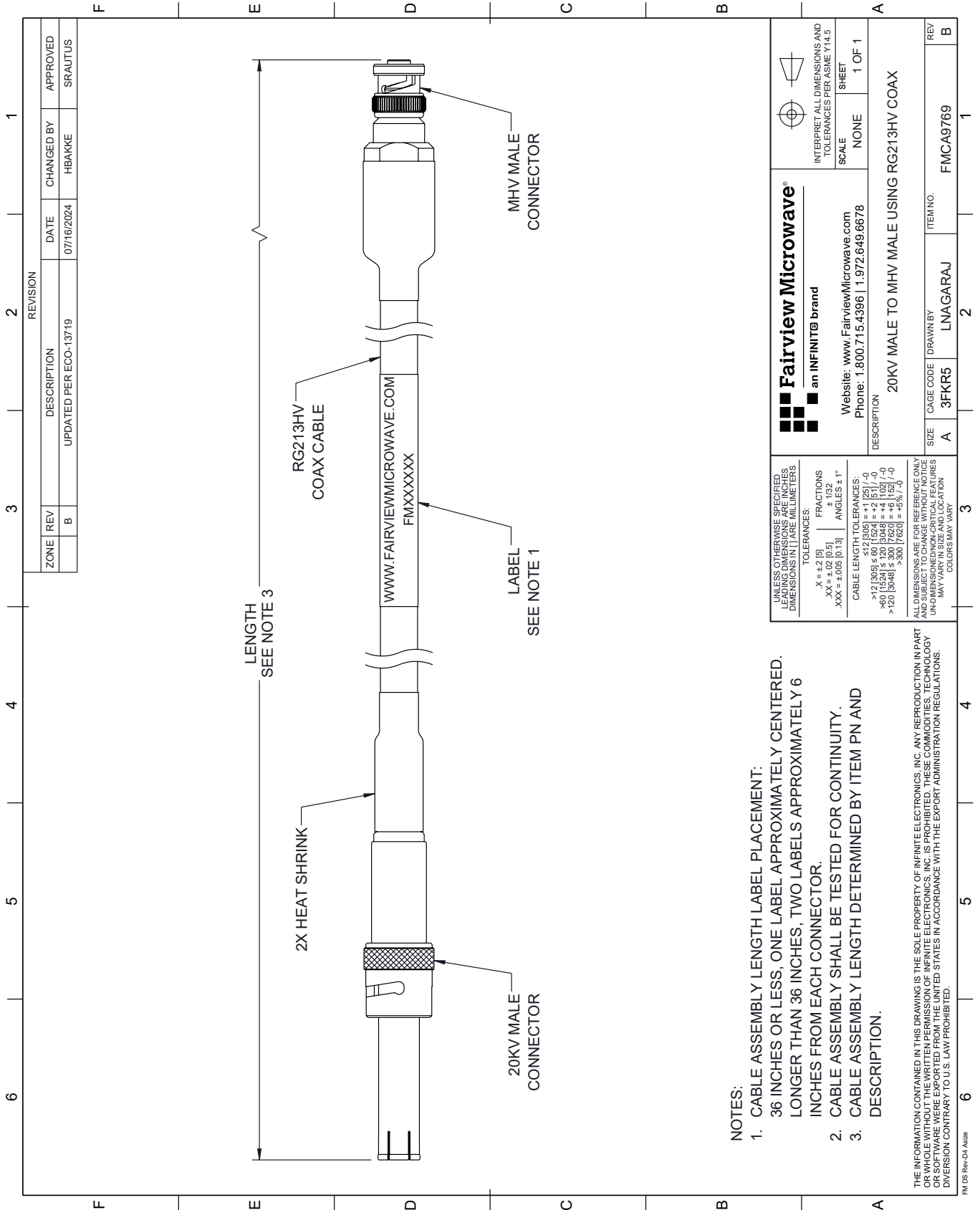
For additional information on this product, please click the following link: [20KV Male to MHV Male Cable RG213HV Coax in 24 Inch FMCA9769-24](https://www.fairviewmicrowave.com/20kv-male-to-mhv-male-cable-rg213hv-coax-in-24-inch-fmca9769-24)

URL: <https://www.fairviewmicrowave.com/20kv-male-to-mhv-male-cable-rg213hv-coax-in-24-inch-fmca9769-24-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# FMCA9769-24 CAD Drawing

20KV Male to MHV Male Cable RG213HV Coax in 24 Inch



REVISION			
ZONE	REV	DESCRIPTION	DATE
B		UPDATED PER ECO-13719	07/16/2024
			HBAKKE
			SRAUTUS

 <b>Fairview Microwave</b> an INFINIT® brand		Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: 20KV MALE TO MHV MALE USING RG213HV COAX			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	LNAGARAJ	FMCA9769

- NOTES:**
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
  - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
  - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32  
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:  
 <12 [305] ≤ 60 [1524] = ± 1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ± 4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ± 8 [203] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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