

10KV Male to SHV Plug Cable RG303HV Coax

The 10KV male to SHV plug cable using RG303HV coax, part number FMCA9779, from Fairview Microwave is in-stock and ships same day. This Fairview 10KV to SHV cable assembly has a male to plug 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 0.075 lbs [34.02 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
- SHV Plug
- 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	SHV Plug 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:

FMCA9779 - xx uu

cm = Centimeters
<blank> = Inches

Length

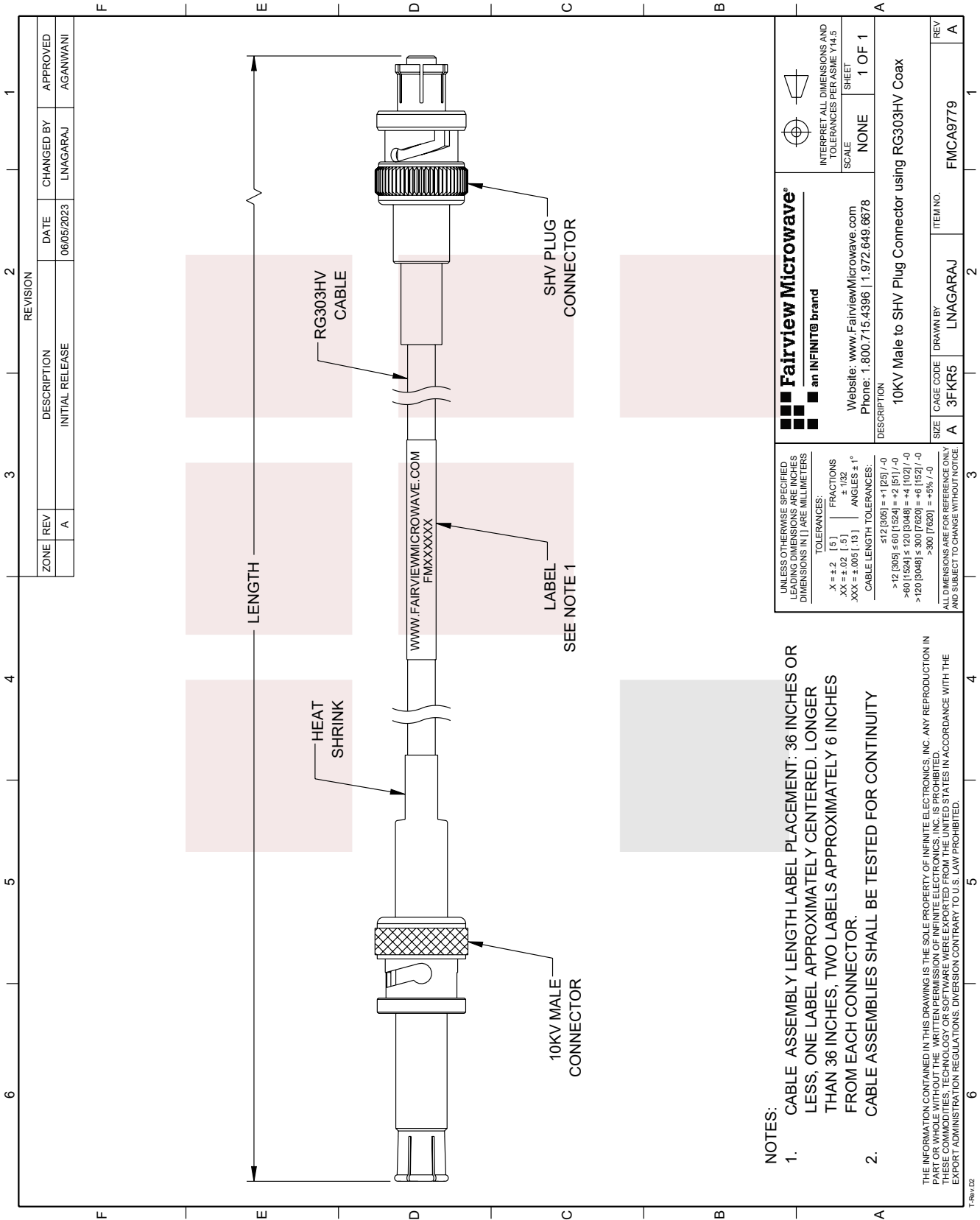
Example: FMCA9779-12 = 12 inches long cable
FMCA9779-100cm = 100 cm long cable

10KV Male to SHV Plug 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 SHV Plug Cable RG303HV Coax FMCA9779](#)

URL: <https://www.fairviewmicrowave.com/10kv-male-to-shv-plug-cable-rg303hv-coax-fmca9779-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.



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	06/05/2023	LNAGARAJ	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

Fairview Microwave®
an INFINITE brand

Website: www.FairviewMicrowave.com
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
10KV Male to SHV Plug Connector using RG303HV Coax

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	LNAGARAJ	FMCA9779	A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND DECIMAL DIMENSIONS IN LARGE MILLIMETERS

TOLERANCES:
 .X = ±.2 (.5) | FRACTIONS ± 1/32
 .XX = ±.02 (.5) | ANGLES ± 1°
 .XXX = ±.005 (.13)

CABLE LENGTH TOLERANCES:
 ≤12 (305) = +1 (25) / -0
 >12 (305) ≤ 60 (1524) = +2 (51) / -0
 >60 (1524) ≤ 120 (3048) = +4 (102) / -0
 >120 (3048) ≤ 300 (7620) = +6 (152) / -0
 >300 (7620) = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

- 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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY
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