

FMHR0090-100CM DATA SHEET

SMA Male to SMA Male MIL-DTL-17 Cable M17/113-RG316 Coax in 100 cm

MIL-DTL-17 SMA (M39012/55-3026) to SMA (M39012/55-3026) cable assemblies with test reports from Fairview Microwave are part of our full line of reliable RF components available with same-day shipping. These COTS (commercial-off-the-shelf) cable assemblies using M17/113-RG316 have traceable processes and materials that are recorded and provided in the included test report. The MIL-DTL-17 coaxial cable and MIL-PRF-39012 connectors are assembled with J-STD-001 soldering processes and meet WHMA-A-620 workmanship criteria. These carefully selected materials, assembly processes and test sequence ensure a dependable cable assembly for high reliability applications where the cost of failure or replacement is high. Each serialized SMA to SMA MIL-DTL-17 cable assembly is traceable to its component lots and test data ship with every cable.

This MIL-C-17 M39012/55-3026 to M39012/55-3026 cable assembly using M17/113-RG316 datasheet PDF contains specifications, CAD drawing and dimensions that are shown below. Fairview Microwave offers these high reliability RF cable assemblies with test data, and many other RF, microwave and millimeter wave components which allow designers to configure and customize their signal systems however they like. Whether the need is to provide reliable MIL-DTL-17 interconnects or supporting test reports, Fairview Microwave has the right cable assemblies for the job. Fairview can also expertly build your custom cable assemblies for you and ship same day.

Electrical Specifications

Description	Min	Тур	Мах	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		32 [104.99]		pF/ft [pF/m]
DC Resistance Inner Cor	nductor	0.84 [2.76]		Ω/1000ft [Ω/Km]
Dielectric Withstanding V	/oltage (AC)		750	Vrms

Performance by Frequency

Description	F1	F2 F	3 F4	F5	Units
Frequency	0.05	0.1 0	.4 1	3	GHz
Insertion Loss (Max.)	0.28	0.4 0.	77 1.37	2.12	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.06*SQRT(GHz) dB per connector.

Mechanical Specifications

Cable Assembly Length*

Cable Cable Type Impedance 39.3701 in [100 cm]

M17/113-RG316 50 Ohms



Configuration:

- SMA Male
- SMA Male
- M17/113-RG316

Features:

- Max Frequency 3 GHz
- 69.5% Phase Velocity
- FEP Jacket
- J-STD-Soldering
- Lot Traceability Data
- Qualified cable and connectors (QPL)
- Acceptance Test Report
- RF Test Data
- In stock and ready to ship

Applications:

- Hi-Reliability
- Unmanned Systems
- Drones
- MIL-DTL-17 Requirements
- Military Electronics

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com



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Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Outer Conductor Diameter Jacket Material Jacket Diameter Stranded Copper Clad Steel, Silver PTFE 1 Silver Clad Copper 0.081 in [2.06 mm] FEP 0.098 in [2.49 mm]

Connectors

Description	Connector 1	Connector 2
Туре	SMA Male	SMA Male
Specification	MIL-PRF-39012	MIL-PRF-39012
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	ASTM B488	ASTM B488
Dielectric Type	Teflon	Teflon
Body Material & Plating	Steel, Passivated	Steel, Passivated
Body Plating Spec.	QQ-P-35	QQ-P-35
Coupling Nut Material & Pla	ting Steel, Passivated	Steel, Passivated
Coupling Nut Plating Spec.	QQ-P-35	QQ-P-35
Seal Gasket Material	Silicone Rubber	Silicone Rubber

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.

Environmental Specifications

Temperature
Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

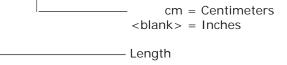
• Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMHR0090 - xx

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Example: FMHR0090-12 = 12 inches long cable FMHR0090-100cm = 100 cm long cable

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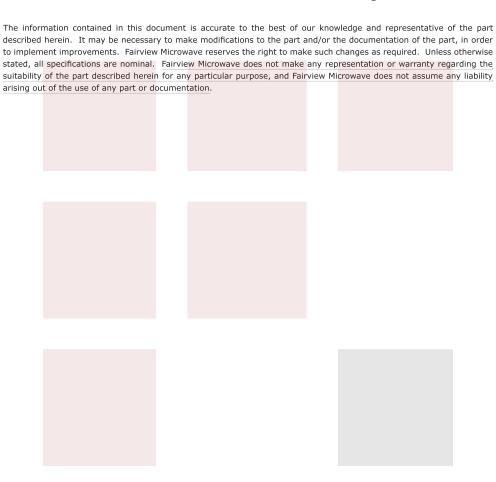


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SMA Male to SMA Male MIL-DTL-17 Cable M17/113-RG316 Coax in 100 cm from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

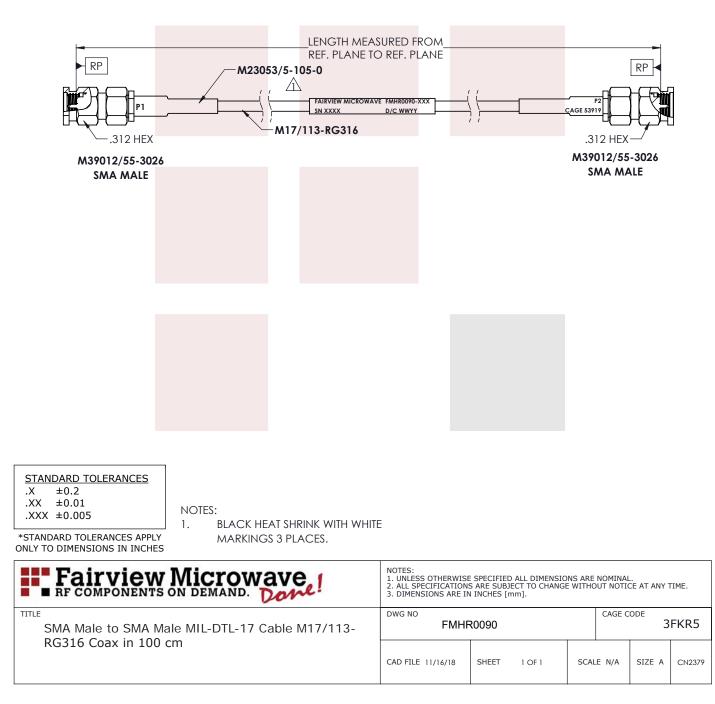
Click the following link to obtain additional part information: SMA Male to SMA Male MIL-DTL-17 Cable M17/113-RG316 Coax in 100 cm FMHR0090-100CM

URL: https://www.fairviewmicrowave.com/sma-male-sma-male-cable-m17-113-rg316-coax-fmhr0090-100cm-p.aspx









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