

RA SMA Male to RA Push-On SMP Female Cable RG-316 Coax

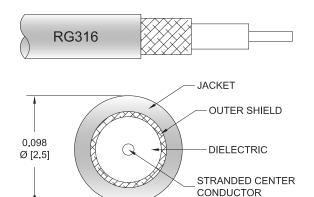
FMC00055

Configuration

- · Connector 1: SMA Male Right Angle
- · Connector 2: Push-On SMP Female Right Angle
- Cable Type: RG-316Coax Cable Group: 8Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- · 69% Phase Velocity
- · FEP Jacket



Applications

· General Purpose

· Laboratory Use

Description

The RA SMA male to RA SMP female push-on cable using RG-316 coax, part number FMC00055, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMP cable assembly has a male to female gender configuration with 50 ohm flexible RG-316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00055 SMA male to SMP female cable assembly operates to 3 GHz. The right angle SMA and right angle SMP interfaces on the RG-316 cable allow for easier connections in tight spaces.

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
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency



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FMC00055

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
FMC00055	Custom Lengths	Insertion Loss (Typ.)	0.11	0.16	0.23	0.38	0.58	dB/ft	
1101200033	Available	111361 tio11 to33 (19p.)	0.37	0.53	0.76	1.25	1.91	dB/m	
FMC00055-12	12 Inch	Insertion Loss (Typ.)	0.41	0.46	0.53	0.68	0.88	dB	0.035
FMC00055-24	24 Inch	Insertion Loss (Typ.)	0.52	0.62	0.76	1.06	1.46	dB	0.046
FMC00055-36	36 Inch	Insertion Loss (Typ.)	0.63	0.78	0.99	1.44	2.04	dB	0.056
FMC00055-48	48 Inch	Insertion Loss (Typ.)	0.74	0.94	1.22	1.82	2.62	dB	0.066
FMC00055-72	72 Inch	Insertion Loss (Typ.)	0.96	1.26	1.68	2.58	3.78	dB	0.086

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB Loss due to Connector 2: 0.2 dB Base Weight: 0.035 pounds Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight 0.035 lbs [15.88 g]

Cable

Cable Type RG-316 Impedance 50 Ohms Inner Conductor Type Stranded

Copper Clad Steel, Silver Inner Conductor Material and Plating **PTFE**

Dielectric Type Number of Shields

Shield Layer 1 Silver Plated Copper Braid

Jacket Material FEP, Tan

Jacket Diameter 0.102 in [2.59 mm]



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Connectors

Description	Connector 1	Connector 2
Туре	SMA Male Right Angle	SMP Female Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Connection Method		Push-On
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μin minimum	30 μin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		3 µin minimum
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 µin minimum	3 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	

Environmental Specifications

Operating Range Temperature

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



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FMC00055

Typical Performance Data

How to Order

Part Number Configuration:

FMC00055
- xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: FMC00055-12 = 12 inches long cable FMC00055-100cm = 100 cm long cable

RA SMA Male to RA Push-On SMP Female Cable RG-316 Coax 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: RA SMA Male to RA Push-On SMP Female Cable RG-316 Coax FMC00055

URL: https://www.fairviewmicrowave.com/ra-sma-male-to-ra-push-on-smp-female-cable-rg-316-coax-fmc00055-p.aspx

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