

Low Loss RA SMA Male to SMA Male Cable I MR-240-UF Coax with I F Solder



FMCA100218

Configuration

· Connector 1: SMA Male Right Angle

Connector 2: SMA MaleCable Type: LMR-240-UFCoax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- · 84% Phase Velocity
- · Double Shielded
- TPF Jacket

Applications

· General Purpose

· Laboratory Use

Description

The RA SMA male to SMA male cable using LMR-240-UF coax, part number FMCA100218, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100218 SMA male to SMA male cable assembly operates to 6 GHz. The right angle SMA interface on the LMR-240-UF cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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

Minimum	Typical	Maximum	Units
DC		6	GHz
		1.4:1	
	84		%
90			dB
	1.21 [3.97]		ns/ft [ns/m]
	24.2 [79.4]		pF/ft [pF/m]
	0.06 [0.2]		uH/ft [uH/m]
	4.28 [14.04]		Ohms/1000ft [Ohms/Km]
	3.89 [12.76]		Ohms/1000ft [Ohms/Km]
	DC	DC 84 90 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 4.28 [14.04]	DC 6 1.4:1 84 90 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 4.28 [14.04]



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibel		Frequency	250	500	1000	2500	6000	MHz	weight (ms)
FMCA100218	Custom Lengths	Insertion Loss (Typ.)	0.046	0.066	0.096	0.155	0.212	dB/ft	
TWCA100218	Available	ilisertion Loss (Typ.)	0.16	0.22	0.32	0.51	0.7	dB/m	
FMCA100218-12	12 inch	Insertion Loss (Typ.)	0.35	0.37	0.4	0.46	0.52	dB	0.068
FMCA100218-24	24 inch	Insertion Loss (Typ.)	0.4	0.44	0.5	0.61	0.73	dB	0.101
FMCA100218-36	36 inch	Insertion Loss (Typ.)	0.44	0.5	0.59	0.77	0.94	dB	0.133
FMCA100218-60	60 inch	Insertion Loss (Typ.)	0.53	0.63	0.78	1.08	1.36	dB	0.197
FMCA100218-300	300 inch	Insertion Loss (Typ.)	1.45	1.95	2.7	4.18	5.6	dB	0.837

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: 0.2 dB
Loss due to Connector 2: 0.1 dB
Base Weight: 0.068 pounds
Additional Weight per Inch: 0.00267 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0 in [0 mm]

Weight 0.068 lbs [30.84 g]

Cable

Cable Type LMR-240-UF

Impedance 50 Ohms
Inner Conductor Type Stranded

Inner Conductor Type

Inner Conductor Material and Plating

Copper

Dislocation Type

Dielectric Type PE (F)
Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material TPE, Black

Jacket Diameter 0.24 in [6.1 mm]
One Time Minimum Bend Radius 0.75 in [19.05 mm]
Repeated Minimum Bend Radius 2.5 in [63.5 mm]

 Repeated Minimum Bend Radius
 2.5 in [63.5 mm]

 Bending Moment
 0.13 lbs-ft [0.18 N-m]

 Flat Plate Crush
 13 lbs/in [0.23 Kg/mm]

 Tensile Strength
 80 lbs [36.29 Kg]



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Connectors

Description	Connector 1	Connector 2
Туре	SMA Male Right Angle	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μin minimum	50 μin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	3 µin minimum	3 µin minimum
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Plating Specification	3 μin minimum	3 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs 0.34 Nm	

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



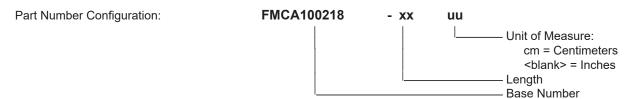
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Typical Performance Data

How to Order



Example: FMCA100218-12 = 12 inches long cable

FMCA100218-100cm = 100 cm long cable

Low Loss RA SMA Male to SMA Male Cable LMR-240-UF Coax with LF Solder 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: Low Loss RA SMA Male to SMA Male Cable LMR-240-UF Coax with LF Solder FMCA100218

URL: https://www.fairviewmicrowave.com/low-loss-ra-sma-male-to-sma-male-cable-lmr-240-uf-coax-with-lf-solder-fm-ca100218-p.aspx

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