



Fire Rated Low Loss SSMC Plug to N Female Bulkhead Cable LMR-100-FR Coax

The SSMC plug to type N female bulkhead cable using LMR-100-FR coax, part number FMCA3218, from Fairview Microwave is in-stock and ships same day. This Fairview SSMC to type N cable assembly has a plug to female gender configuration with 50 ohm flexible LMR-100A-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3218 SSMC plug to type N female cable assembly operates to 5.8 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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

Description	Min	Т	ур	Max	ι	Jnits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		(56			%
RF Shielding	90					dB
Group Delay		1.54	[5.05]		ns/f	t [ns/m]
Capacitance		30.8 [101.05]	pF/f	t [pF/m]
Inductance		0.077	[0.25]		uH/f	t [uH/m]
DC Resistance Inner Cor	nductor	81 [2	65.75]		Ω/100	0ft [Ω/Km]
DC Resistance Outer Cor	nductor	9.5 [31.17]		Ω/100	0ft [Ω/Km]
Jacket Spark				2,000	\	/rms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.115	0.165	0.24	0.398	0.641	dB/ft
	0.38	0.54	0.79	1.31	2.1	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.1 lbs [45.36 g]

Cable

Cable Type LMR-100A-FR



Configuration:

- SSMC Plua
- N Female Bulkhead
- LMR-100A-FR

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- FRPE Jacket

Applications:

- General Purpose
- Laboratory Use

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





Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePE

Dielectric Type PE
Number of Shields 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper
Jacket Material FRPE, Black
Jacket Diameter 0.11 in [2.79 mm]

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

1 in [25.4 mm]

Rending Moment

0.1 lbs-ft [0.14 Name

Bending Moment 0.1 lbs-ft [0.14 N-m]
Flat Plate Crush 10 lbs/in [0.18 Kg/mm]
Tensile Strength 15 lbs [6.8 Kg]

Connectors

Description	Connector	1	Connector 2		
Туре	SSMC Plug		N Female		
Mount Method	thod		Bulkhead		
Specification			MIL-STD-348A		
Impedance	50 Ohms		50 Ohms		
Mating Cycles	500				
Contact Material & Plating	Beryllium Copper, Gold		Brass, Gold		
Contact Plating Spec.			30μ in minimum		
Dielectric Type	PTFE		PTFE		
Outer Cond Material & Plat	ng		Brass, Nickel		
Body Material & Plating	Beryllium Copper, Gold		Brass, Nickel		
Body Plating Spec.			100μ in minimum		
Coupling Nut Material & Pla	iting Brass, Gold				
Hex Size	5/32 inch				
Torque	1 in-lbs 0.11 Nm				

Environmental Specifications Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

Copyright © 2020 REV 1.0 Page 2 of 4





How to Order

Part Number Configuration:	FMCA3218	- xx	uu	
				cm = Centimeters <blank> = Inches Length</blank>

Example: FMCA3218-12 = 12 inches long cable

FMCA3218-100cm = 100 cm long cable

Fire Rated Low Loss SSMC Plug to N Female Bulkhead Cable LMR-100-FR 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: Fire Rated Low Loss SSMC Plug to N Female Bulkhead Cable LMR-100-FR Coax FMCA3218

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-ssmc-plug-to-n-female-bulkhead-cable-lmr-100-fr-coax-fmca3218-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.

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





