

Low Loss RA SMA Male to N Female Bulkhead Cable I I 142 Coax



FMC00620

Configuration

Connector 1: SMA Male Right AngleConnector 2: N Female Bulkhead

Cable Type: LL142Coax Flex Type: Flexible

Features

- · Max Frequency 18 GHz
- · 80% Phase Velocity
- · Triple Shielded
- · FEP Jacket

Applications

· General Purpose

· Laboratory Use

Description

The RA SMA male to type N female bulkhead cable using LL142 coax, part number FMC00620, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N cable assembly has a male to female gender configuration with 50 ohm flexible LL142 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00620 SMA male to type N female cable assembly operates to 18 GHz. The right angle SMA interface on the LL142 cable allows for easier connections in tight spaces. 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 triple shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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		18	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
Capacitance		25 [82.02]		pF/ft [pF/m]

Specifications by Frequency



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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Number Length	Length	Frequency	1000	2000	4500	9000	18000	MHz	weight (ins)
FMC00620	Custom Lengths	Insertion Loss (Typ.)	0.08	0.11	0.162	0.253	0.342	dB/ft	
110100020	Available	ilisertion Loss (Typ.)	0.25	0.36	0.54	0.84	1.13	dB/m	
FMC00620-12	12 inch	Insertion Loss (Typ.)	0.54	0.59	0.67	0.8	0.94	dB	0.165
FMC00620-24	24 inch	Insertion Loss (Typ.)	0.61	0.7	0.83	1.05	1.28	dB	0.204
FMC00620-36	36 inch	Insertion Loss (Typ.)	0.69	0.8	1	1.3	1.62	dB	0.242
FMC00620-48	48 inch	Insertion Loss (Typ.)	0.76	0.91	1.16	1.56	1.96	dB	0.28
FMC00620-60	60 inch	Insertion Loss (Typ.)	0.84	1.02	1.32	1.81	2.3	dB	0.318

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: 0.42 dB Loss due to Connector 2: 0.04 x sqrt(fGHz) dB Base Weight: 0.165 pounds Additional Weight per Inch: 0.00317 pounds

Mechanical Specifications

Cable Assembly

Weight 0.165 lbs [74.84 g]

Cable

Cable Type LL142 Impedance 50 Ohms Inner Conductor Type Solid

Copper, Silver Inner Conductor Material and Plating Dielectric Type **PTFE**

Number of Shields Shield Layer 1 Silver Plated Copper Tape Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper Wire

Jacket Material FEP, Green

Jacket Diameter 0.195 in [4.95 mm] Repeated Minimum Bend Radius 0.975 in [24.77 mm]



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Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male Right Angle	N Female Bulkhead		
Specification	MIL-PRF-39012	MIL-STD-348		
Impedance	50 Ohms	50 Ohms		
Configuration	Right Angle	Straight		
Mating Cycles		500		
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel		
Contact Plating Specification	50 µin minimum	50μ" min. / 50μ" min.		
Dielectric Type	PTFE	PEI		
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700		
Coupling Nut Material and Plating	Passivated Stainless Steel			
Coupling Nut Plating Specification	SAE-AMS-2700			
Hex Size	5/16 Inch	3/4 inch		
Torque	5 in-lbs 0.57 Nm	20 in-lbs 2.26 Nm		

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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FMC00620

Typical Performance Data

How to Order



Example: FMC00620-12 = 12 inches long cable

FMC00620-100cm = 100 cm long cable

Low Loss RA SMA Male to N Female Bulkhead Cable LL142 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: Low Loss RA SMA Male to N Female Bulkhead Cable LL142 Coax FMC00620

URL: https://www.fairviewmicrowave.com/low-loss-ra-sma-male-to-n-female-bulkhead-cable-II142-coax-fmc00620-p. aspx

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