

SMP Male Bulkhead to RA SMP Female Cable FM-F086 Coax

The SMP male bulkhead to RA SMP female cable using FM-F086 coax, part number FMCA1158, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to SMP cable assembly has a male to female gender configuration with 50 ohm flexible FM-F086 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1158 SMP male to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the FM-F086 cable allows for easier connections in tight spaces. Our RF cable assembly with SMP 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 110 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	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		95 [311.68]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	5	10	18	GHz
Insertion Loss (Typ.)	0.192	0.277	0.429	0.631	0.951	dB/ft
	0.63	0.91	1.41	2.07	3.12	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the male connector and 0.2 dB for the female connector.

Mechanical Specifications

Cable Assembly

Weight 0.021 lbs [9.53 g]

Cable

Cable Type FM-F086
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE



Configuration:

- SMP Male Bulkhead
- SMP Female Right Angle
- FM-F086

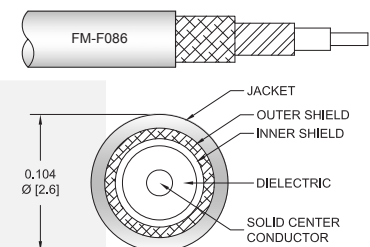
Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use

Cable Diagram:



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Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP
Jacket Diameter	0.104 in [2.64 mm]
Repeated Minimum Bend Radius	0.5 in [12.7 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Male	SMP Female
Mount Method	Bulkhead	
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	3μ in. minimum	MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating		Beryllium Copper, Gold
Outer Cond Plating Spec.		MIL-G-45204
Body Material & Plating	Brass, Gold	
Body Plating Spec.	3μ in. minimum	
Coupling Nut Material & Plating	Brass, Gold	
Coupling Nut Plating Spec.	3μ in. minimum	

Environmental Specifications
Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

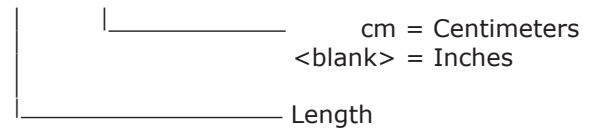
Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA1158 - xx uu

 Example: FMCA1158-12 = 12 inches long cable
 FMCA1158-100cm = 100 cm long cable

SMP Male Bulkhead to RA SMP Female Cable FM-F086 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: [SMP Male Bulkhead to RA SMP Female Cable FM-F086 Coax FMCA1158](#)

URL: <https://www.fairviewmicrowave.com/smp-male-bulkhead-to-ra-smp-female-cable-fm-f086-coax-fmca1158-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.



