

Push-On SMP Female to SMA Female Bulkhead Cable FM-SR086TB Coax

The SMP female push-on to SMA female bulkhead cable using FM-SR086TB coax, part number FMCA3199, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to SMA cable assembly has a female to female gender configuration with 50 ohm formable FM-SR086TB coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA3199 SMP female to SMA female cable assembly operates to 18 GHz. Our RF cable assembly with SMA 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.

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		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		$\Omega/1000\text{ft}$ [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		$\Omega/1000\text{ft}$ [Ω/Km]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.225	0.306	0.508	0.759	1.122	dB/ft
	0.74	1	1.67	2.49	3.68	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 straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.03 lbs [13.61 g]

Cable

Cable Type FM-SR086TB
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor Material and Plating Copper, Tin



Configuration:

- Push-OnSMP Female
- SMA Female Bulkhead
- FM-SR086TB

Features:

- Max Frequency 18 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

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Repeated Minimum Bend Radius 0.78 in [19.81 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Female	SMA Female
Mount Method		Bulkhead
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Connection Method	Push-On	
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	30 µin minimum	
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Beryllium Copper, Gold	Brass, Gold
Outer Cond Plating Spec.	3 µin minimum	
Body Material & Plating		Brass, Gold

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA3199 - xx uu

cm = Centimeters
<blank> = Inches
Length

Example: FMCA3199-12 = 12 inches long cable
FMCA3199-100cm = 100 cm long cable

Push-On SMP Female to SMA Female Bulkhead Cable FM-SR086TB 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: [Push-On SMP Female to SMA Female Bulkhead Cable FM-SR086TB Coax FMCA3199](#)

URL: <https://www.fairviewmicrowave.com/push-on-smp-female-to-sma-female-bulkhead-cable-fm-sr086tb-coax-fm-ca3199-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.

