

Snap-On BMA Jack to RA SMA Male Cable FM-SR086TBJ Coax

The BMA jack snap-on to RA SMA male cable using FM-SR086TBJ coax, part number FMCA1572, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to SMA cable assembly has a jack to male gender configuration with 50 ohm formable FM-SR086TBJ coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA1572 BMA jack to SMA male cable assembly operates to 10 GHz. The right angle SMA interface on the FM-SR086TBJ cable allows for easier connections in tight spaces.

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		10	GHz
VSWR			1.5:1	
Return Loss			15.56	dB
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
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	0.5	1	2.5	5	10	GHz
Insertion Loss (Max.)	0.15	0.22	0.37	0.55	0.81	dB/ft
	0.49	0.72	1.21	1.8	2.66	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

Diameter 0.35 in [8.89 mm]

Cable

Cable Type FM-SR086TBJ
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Steel, Silver



Configuration:

- Snap-On BMA Jack
- SMA Male Right Angle
- FM-SR086TBJ

Features:

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use
- Rack and Panel
- BMA Cable RF Backplanes
- Phased Array Interconnects
- High Speed Switching Networks
- Blind Mate BMA Test

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Dielectric Type	PTFE
Number of Shields	1
Outer Conductor Material and Plating	Tinned Copper Composite Braid
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	0.787 in [19.99 mm]

Connectors

Description	Connector 1	Connector 2
Type	BMA Jack	SMA Male
Impedance	50 Ohms	50 Ohms
Connection Method	Snap-On	
Contact Material & Plating	Beryllium Copper, Gold	Brass, Gold over Nickel
Contact Plating Spec.	51.18µ in. minimum	0.2 µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Beryllium Copper, Gold	
Body Material & Plating	Stainless Steel, Gold	Brass, Gold over Nickel
Body Plating Spec.	19.68µ in. minimum	0.1 µin minimum
Coupling Nut Material & Plating		Passivated Stainless Steel
Hex Size		5/16 inch
Torque		8 in-lbs [0.9 Nm]

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

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

Plotted and Other Data

Notes:

Typical Performance Data



How to Order

Part Number Configuration:

FMCA1572 - xx uu



Example: FMCA1572-12 = 12 inches long cable
 FMCA1572-100cm = 100 cm long cable

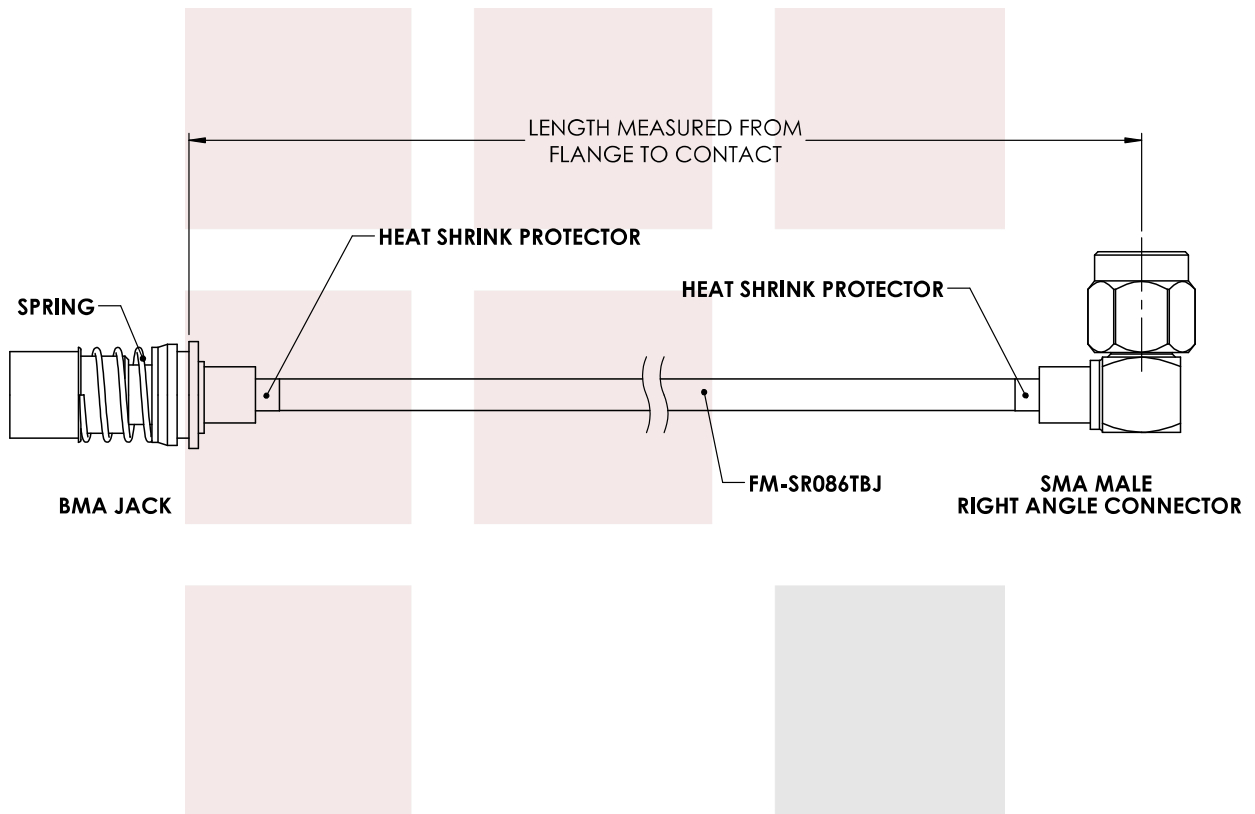
Snap-On BMA Jack to RA SMA Male Cable FM-SR086TBJ Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Snap-On BMA Jack to RA SMA Male Cable FM-SR086TBJ Coax FMCA1572](#)

URL: <https://www.fairviewmicrowave.com/bma-jack-ra-sma-male-cable-rg405-type-.086-coax-fmca1572-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.





STANDARD TOLERANCES

- .X ±0.2
- .XX ±0.01
- .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE

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DWG NO

FMCA1572

CAGE CODE

3FKR5

CAD FILE 12/13/17

SHEET

SCALE N/A

SIZE A

CN2245