

FMCA1581 DATA SHEET

Snap-On BMA Jack to SMP Female Cable FM-SR086TBJ Coax

The BMA jack snap-on to SMP female cable using FM-SR086TBJ coax, part number FMCA1581, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to SMP cable assembly has a jack to female 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 FMCA1581 BMA jack to SMP female cable assembly operates to 18 GHz.

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	Мах	ι	Jnits
Frequency Range	DC			18		GHz
VSWR				1.5:1		
Return Loss				15.56		dB
Velocity of Propagation		6	9.5			%
RF Shielding	100					dB
Group Delay		1.43	[4.69]		ns/f	t [ns/m]
Capacitance		29 [9	95.14]		pF/f	t [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ω/1000ft [Ω/Km]		
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]		

Performance by Frequency

-		•				
Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.22	0.33	0.52	0.77	1.13	dB/ft
	0.72	1.08	1.71	2.53	3.71	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

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type 0.35 in [8.89 mm]

FM-SR086TBJ 50 Ohms Solid Copper Clad Steel, Silver PTFE



Configuration:

- Snap-On BMA Jack
- SMP Female
- FM-SR086TBJ

Features:

- Max Frequency 18 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

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





Number of Shields Outer Conductor Material and Plating Jacket Material Jacket Diameter 1 Tinned Copper Composite Braid FEP, Black 0.105 in [2.67 mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius 0.5 in [12.7 mm] 0.787 in [19.99 mm]

Connectors

Description	Connector 1	Connector 2		
Туре	BMA Jack	SMP Female		
Specification		MIL-STD-348		
Impedance	50 Ohms	50 Ohms		
Connection Method	Snap-On			
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Spec.	51.18µ in. m <mark>inimu</mark> m	MIL-G-45204		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	ng Beryllium Copper, Gold			
Body Material & Plating	Stainless Steel, Gold	Beryllium Copper, Gold		
Body Plating Spec.	19.68µ in. minimum	MIL-G-45204		

Mechanical Specification Notes:

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

Environmental Specifications

Temperature Operating Range

-40 to +105 deg C

Compliance Certifications (see product page for current document)

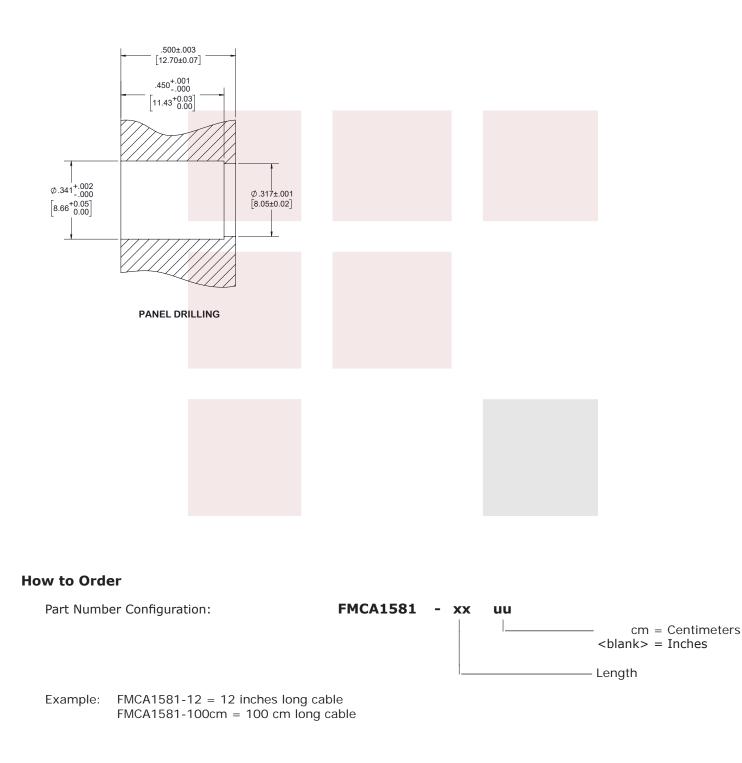
Plotted and Other Data

Notes:





Typical Performance Data



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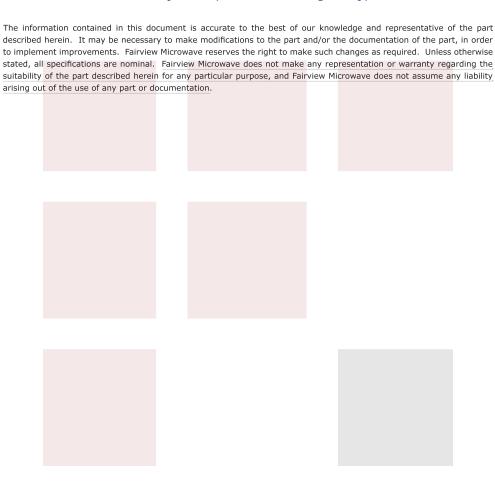




Snap-On BMA Jack to SMP Female Cable FM-SR086TBJ Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

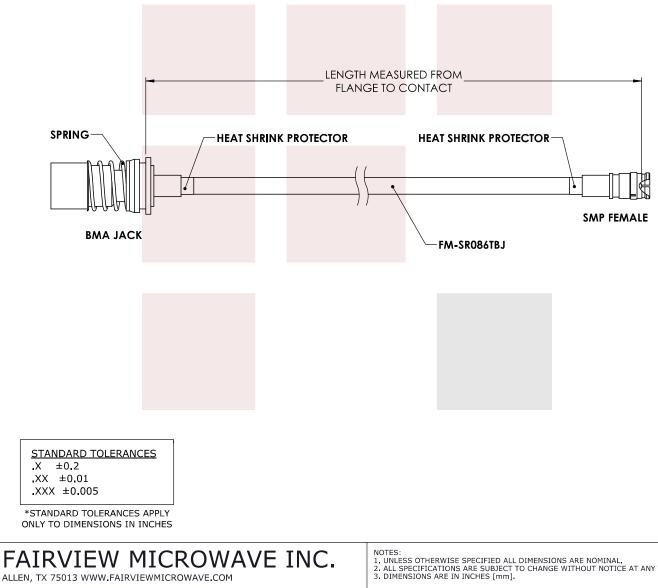
Click the following link to obtain additional part information: Snap-On BMA Jack to SMP Female Cable FM-SR086TBJ Coax FMCA1581

URL: https://www.fairviewmicrowave.com/bma-jack-smp-female-cable-rg405-type-.086-coax-fmca1581-p.aspx









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 ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. DIMENSIONS ARE IN INCHES [mm]. 							
DWG NO				CAGE CODE			
FMCA1581				3	FKR5		
CAD FILE 12/15/17	SHEET	SCAL	E N/A	SIZE A	CN2245		

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