

SMA Male to RA MMCX Plug Cable FM-SR086TBJ Coax in 6 Inch

The SMA male to RA MMCX plug 6 inch cable using FM-SR086TBJ coax, part number FMCA2145-6, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to MMCX cable assembly has a male to plug 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 FMCA2145-6 SMA male to MMCX plug cable assembly operates to 6 GHz. The right angle MMCX 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
Operating Voltage (AC)			170	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	5				GHz
Insertion Loss (Typ.)	0.412	0.574				dB

Electrical Specification Notes:

The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length* 6 in [152.4 mm]

Cable

Cable Type	FM-SR086TBJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Outer Conductor Material and Plating	Tinned Copper Composite Braid
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]



Configuration:

- SMA Male
- MMCX Plug Right Angle
- FM-SR086TBJ

Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- Cable may be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- High RF Shielding >100 dB
- 100% Hi-pot and continuity tested
- 100% VSWR tested to max frequency of assembly
- Standard and custom lengths ship the same day

Applications:

- General Purpose
- Laboratory Use

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Repeated Minimum Bend Radius 0.37 in [9.4 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	MMCX Plug
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Gold
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 $\pm 3/8"$, whichever is greater.

Environmental Specifications

Temperature

Operating Range -65 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:

FMCA2145 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMCA2145-12 = 12 inches long cable
 FMCA2145-100cm = 100 cm long cable

SMA Male to RA MMCX Plug Cable FM-SR086TBJ Coax in 6 Inch 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.

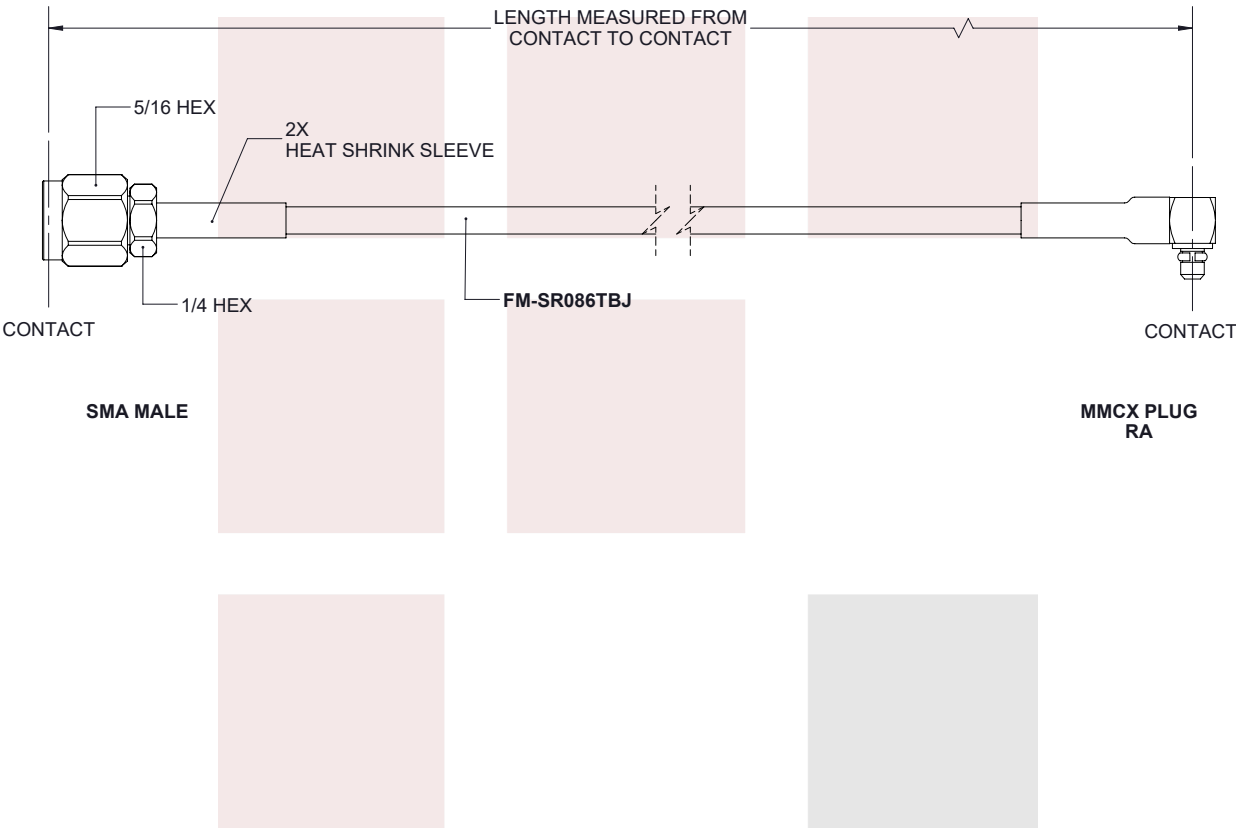
Click the following link to obtain additional part information: [SMA Male to RA MMCX Plug Cable FM-SR086TBJ Coax in 6 Inch FMCA2145-6](https://www.fairviewmicrowave.com/sma-male-ra-mmcx-plug-cable-fm-sr086tbj-coax-fmca2145-6-p.aspx)

URL: <https://www.fairviewmicrowave.com/sma-male-ra-mmcx-plug-cable-fm-sr086tbj-coax-fmca2145-6-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/27/19	S.ELLIS



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TITLE SMA Male to RA MMCX Plug Cable FM-SR086TBJ Coax in 6 Inch		TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
		.X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] ± 1/32 .XXX = ±.005 [.13] ANGLES ± 1°		L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	
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		SIZE A CAGE CODE 3FKR5 DRAWN BY K.DANG PART NUMBER FMCA2145 REV A		SHEET 1 OF 1 SCALE N/A	

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