

## SMA Male to RA MMCX Plug Cable FM-SR086TBJ Coax in 18 Inch

The SMA male to RA MMCX plug 18 inch cable using FM-SR086TBJ coax, part number FMCA2145-18, 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 FMCA2145-18 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.)	0.637	1.123				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\*

18 in [457.2 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

&lt;blank&gt; = Inches

Length

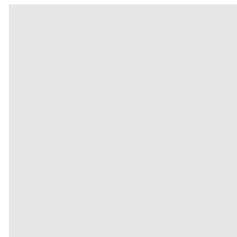
Example: FMCA2145-12 = 12 inches long cable  
 FMCA2145-100cm = 100 cm long cable

SMA Male to RA MMCX Plug Cable FM-SR086TBJ Coax in 18 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.

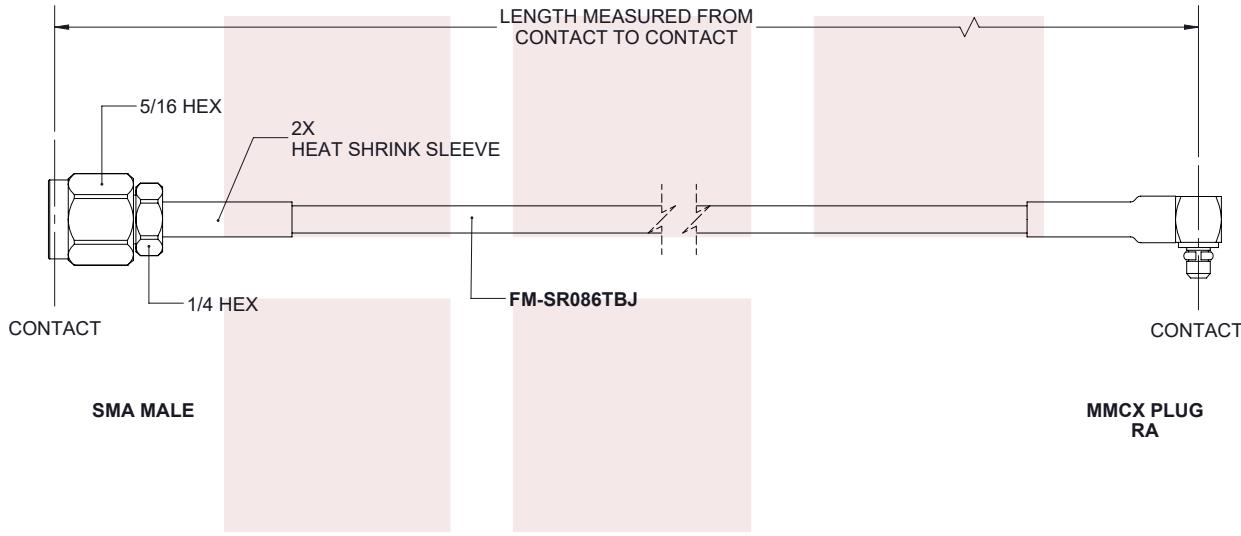
Click the following link to obtain additional part information: [SMA Male to RA MMCX Plug Cable FM-SR086TBJ Coax in 18 Inch FMCA2145-18](#)

URL: <https://www.fairviewmicrowave.com/sma-male-ra-mmcx-plug-cable-fm-sr086tbj-coax-fmca2145-18-p.aspx>

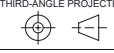
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/27/19	S.ELLIS



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	<b>TOLERANCES:</b> .X = ± 2 [5.08] FRACTIONS .XX = ± .02 [.51] ± 1/32 .XXX = ± .005 [.13] ANGLES ± 1°	<b>CABLE LENGTH (L) TOLERANCES:</b> 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	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		<b>SCALE</b> N/A	
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