

## Low Loss SSMC Male to MMCX Jack Cable RG-316 Coax in 50 CM

The SSMC male to MMCX jack 50 cm cable using RG-316 coax, part number FMC00271-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview SSMC to MMCX cable assembly has a male to jack gender configuration with 50 ohm flexible RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00271-50CM SSMC male to MMCX jack cable assembly operates to 3 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	Typ	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Jacket Spark			2,000	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.38	0.46	0.59	0.82	1.15	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 19.68 in [499.87 mm]

#### Cable

Cable Type RG316  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.102 in [2.59 mm]



### Configuration:

- SSMC Male
- MMCX Jack
- RG316

### Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use

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**Connectors**

Description	Connector 1	Connector 2
Type	SSMC Male	MMCX Jack
Specification		BS EN 122340
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.		30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Beryllium Copper, Gold	Brass, Gold
Body Plating Spec.		3 µin minimum
Coupling Nut Material & Plating	Brass, Gold	
Hex Size	5/32 inch	

**Environmental Specifications**

**Temperature**

Operating Range -55 to +200 deg C

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

**Plotted and Other Data**

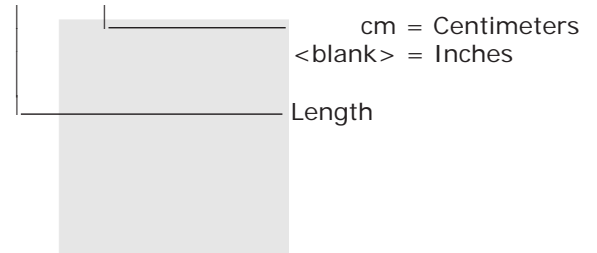
Notes:

**How to Order**

Part Number Configuration:

**FMC00271 - xx uu**

Example: FMC00271-12 = 12 inches long cable  
FMC00271-100cm = 100 cm long cable



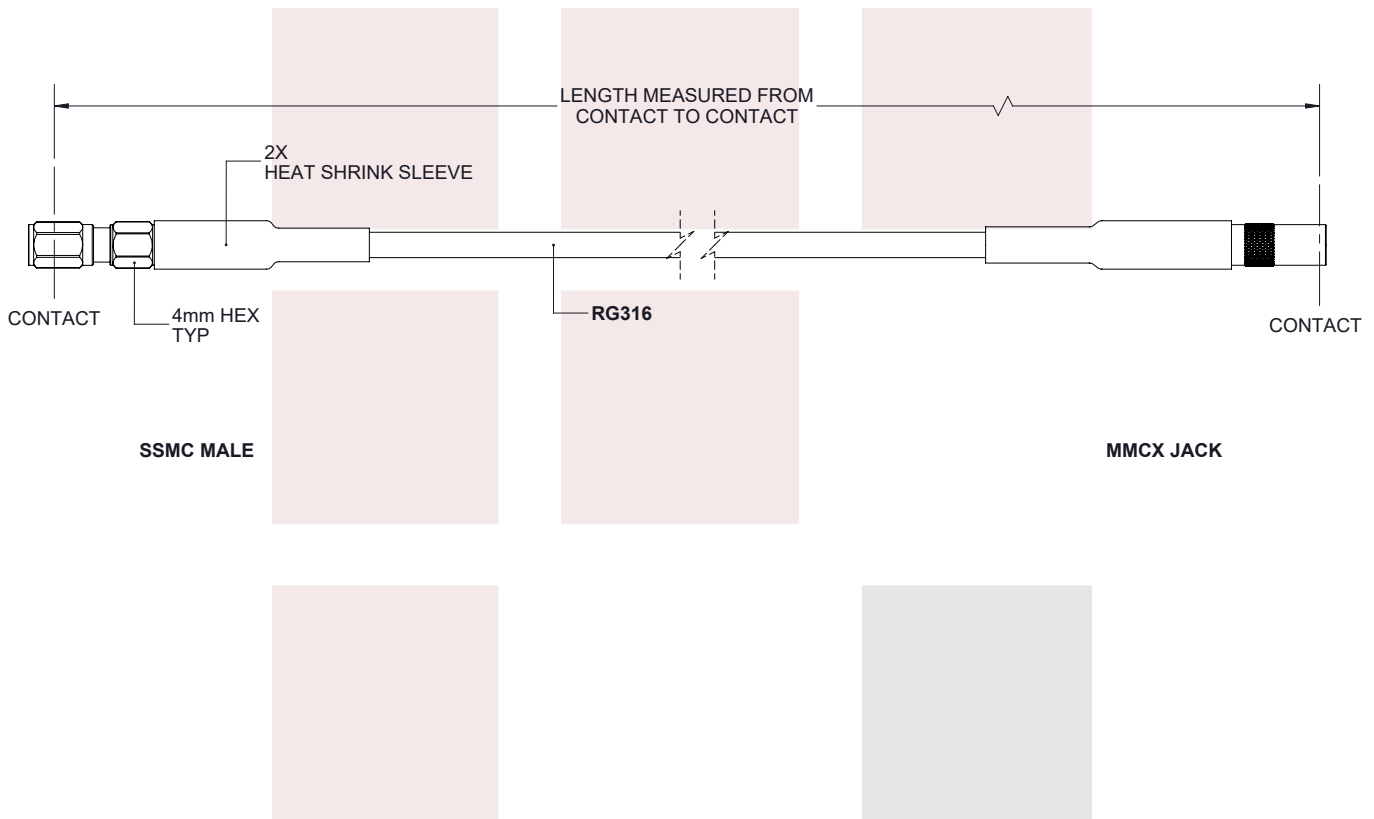
Low Loss SSMC Male to MMCX Jack Cable RG-316 Coax in 50 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss SSMC Male to MMCX Jack Cable RG-316 Coax in 50 CM FMC00271-50CM](#)

URL: <https://www.fairviewmicrowave.com/low-loss-ssmc-male-mmcx-jack-cable-rg316-coax-fmc00271-50cm-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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/25/2020	S.ELLIS



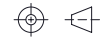
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TITLE  
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Coax in 50 CM

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.X = ±.2 [ .508 ]	FRACTIONS ± 1/32	L ≤ 12 [ 305 ] = +1 [ 25 ] / -0	
.XX = ±.02 [ .51 ]		12 [ 305 ] < L ≤ 60 [ 1524 ] = +2 [ 51 ] / -0	
.XXX = ±.005 [ .13 ]	ANGLES ± 1°	60 [ 1524 ] < L ≤ 120 [ 3048 ] = +4 [ 102 ] / -0	
		120 [ 3048 ] < L ≤ 300 [ 7620 ] = +6 [ 152 ] / -0	
		300 [ 7620 ] < L = +5%L / -0	

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	K.DANG	FMC00271	A

T-Rev.D