

Low Loss SSMC Male to MMCX Jack Cable RG-316 Coax in 48 Inch

The SSMC male to MMCX jack 48 inch cable using RG-316 coax, part number FMC00271-48, 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 FMC00271-48 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.)	0.63	0.83	1.15	1.72	2.51	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* 48 in [121.92 cm]

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

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

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

cm = Centimeters
 <blank> = Inches
 Length

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 48 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: [Low Loss SSMC Male to MMCX Jack Cable RG-316 Coax in 48 Inch FMC00271-48](#)

URL: <https://www.fairviewmicrowave.com/low-loss-ssmc-male-mmcx-jack-cable-rg316-coax-fmc00271-48-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

CONTACT

4mm HEX TYP

2X HEAT SHRINK SLEEVE

LENGTH MEASURED FROM CONTACT TO CONTACT

RG316

SSMC MALE

MMCX JACK

CONTACT

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

Fairview Microwave™ an INFINITE brand		UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		THIRD-ANGLE PROJECTION 	
TOLERANCES:		CABLE LENGTH (L) TOLERANCES:			
.X = ±.2 [5.08] FRACTIONS ± 1/32		L ≤ 12 [305] = +1 [25] / -0			
.XX = ±.02 [.51] ± 1/32		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			
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.					
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	
A	3FKR5	K.DANG	FMC00271	A	

TITLE

Low Loss SSMC Male to MMCX Jack Cable RG-316 Coax in 48 Inch

T-Rev.D