

Low Loss MMCX Jack to SMB Plug Cable LMR-100A-UF Coax in 24 Inch

The MMCX jack to SMB plug 24 inch cable using LMR-100A-UF coax, part number FMC00922-24, from Fairview Microwave is in-stock and ships same day. This Fairview MMCX to SMB cable assembly has a jack to plug gender configuration with 50 ohm flexible LMR-100A-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00922-24 MMCX jack to SMB plug cable assembly operates to 3 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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 | | | 1.5:1 | |
| Velocity of Propagation | | 66 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.54 [5.05] | | ns/ft [ns/m] |
| Capacitance | | 30.8 [101.05] | | pF/ft [pF/m] |
| Inductance | | 0.077 [0.25] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 81 [265.75] | | Ω /1000ft [Ω /Km] |
| DC Resistance Outer Conductor | | 9.5 [31.17] | | Ω /1000ft [Ω /Km] |
| 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.) | 0.34 | 0.43 | 0.54 | 0.68 | 1.07 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax 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* 24 in [609.6 mm]
Weight 0.025 lbs [11.34 g]

Cable

Cable Type LMR-100A-UF
Impedance 50 Ohms



Configuration:

- MMCX Jack
- SMB Plug
- LMR-100A-UF

Features:

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- TPE 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

Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper
 Dielectric Type PE
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper
 Jacket Material TPE, Black
 Jacket Diameter 0.11 in [2.79 mm]

One Time Minimum Bend Radius 0.25 in [6.35 mm]
 Repeated Minimum Bend Radius 1 in [25.4 mm]
 Bending Moment 0.1 lbs-ft [0.14 N-m]
 Flat Plate Crush 10 lbs/in [0.18 Kg/mm]
 Tensile Strength 15 lbs [6.8 Kg]

Connectors

| Description | Connector 1 | Connector 2 |
|----------------------------|------------------------|------------------------|
| Type | MMCX Jack | SMB Plug |
| Specification | BS EN 122340 | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec. | 30 μin minimum | 30 μin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Gold | Brass, Gold |
| Body Plating Spec. | 3 μin minimum | 3 μin minimum |

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

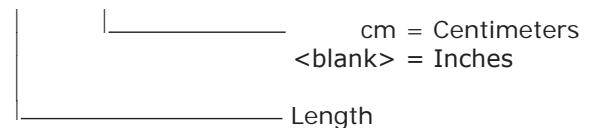
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC00922 - xx uu



Example: FMC00922-12 = 12 inches long cable
 FMC00922-100cm = 100 cm long cable

Low Loss MMCX Jack to SMB Plug Cable LMR-100A-UF Coax in 24 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

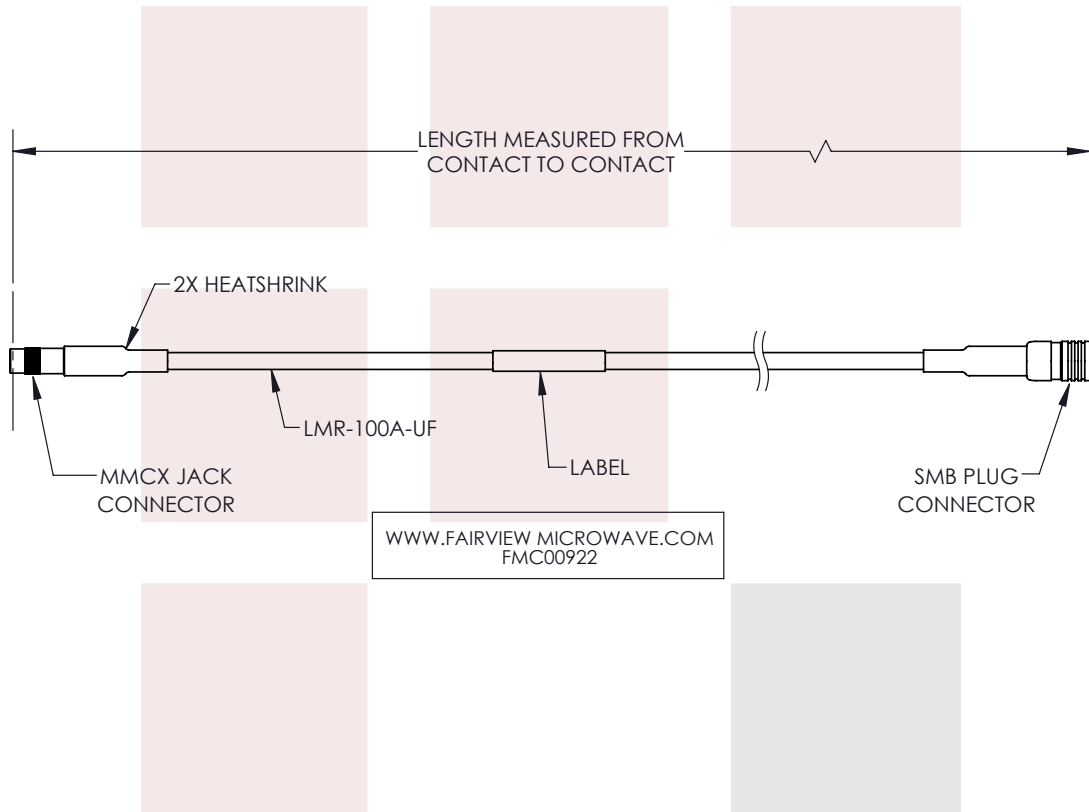
Click the following link to obtain additional part information: [Low Loss MMCX Jack to SMB Plug Cable LMR-100A-UF Coax in 24 Inch FMC00922-24](#)

URL: <https://www.fairviewmicrowave.com/low-loss-mmcx-jack-to-smb-plug-cable-lmr-100a-uf-coax-fmc00922-24-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 | 08/10/2022 | AGANWANI |



NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM END OF CONNECTOR

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|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Fairview Microwave an INFINIT[®] brand</p> | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> | | <p>THIRD-ANGLE PROJECTION</p> | | |
| | <p>TOLERANCES:</p> <p>.X = ±.2 [.51] FRACTIONS ± 1/32</p> <p>.XX = ±.02 [.51] ± 1/32</p> <p>.XXX = ±.005 [.13] ANGLES ± 1°</p> | | <p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0</p> <p>12 [305] < L ≤ 60 [1524] = +2 [51] / -0</p> <p>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</p> <p>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</p> <p>300 [7620] < L = +5%L / -0</p> | | <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> |
| <p>TITLE</p> <p>Low Loss MMCX Jack to SMB Plug Cable LMR-100A-UF Coax in 24 Inch</p> | | | <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> <p>SCALE N/A</p> | | |
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY BPUCHASKI | ITEM NO. FMC00922 | REV A | |

T-Rev.D