

**Test 2.4mm Male to 2.4mm Male Cable FM102FLEX
Coax in 36 Inch and RoHS Compliant**

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------------------|-----|-------------|-------|--------------|
| Frequency Range | DC | | 50 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 28 [91.86] | | pF/ft [pF/m] |
| Inductance | | 65 [213.25] | | uH/ft [uH/m] |
| Input Power (Peak) | | | 550 | Watts |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|--------|--------|--------|-------|-------|-------|
| Frequency | 6 | 12 | 18 | 26.5 | 50 | GHz |
| Insertion Loss (Max.) | 2.25 | 3.25 | 4.07 | 5 | 7.35 | dB |
| VSWR (Max.) | 1.25:1 | 1.25:1 | 1.25:1 | 1.4:1 | 1.4:1 | |
| Power Handling (Max.) | 160 | 110 | 89 | 73 | 52 | Watts |

Mechanical Specifications

Cable Assembly

| | |
|----------|--------------------|
| Length | 36 in [914.4 mm] |
| Diameter | 0.375 in [9.53 mm] |
| Weight | 0.069 lbs [31.3 g] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | FM-102FLEX |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 3 |
| Shield Layer 1 | Silver Plated Copper |
| Shield Layer 2 | Metallic Ribbon |
| Shield Layer 3 | Silver Plated Copper |
| Jacket Material | ETFE, Gray |
| Jacket Diameter | 0.102 in [2.59 mm] |

| | |
|------------------------------|--------------------|
| One Time Minimum Bend Radius | 0.32 in [8.13 mm] |
| Repeated Minimum Bend Radius | 0.96 in [24.38 mm] |
| Typical Flex Cycles | 500,000 |



Configuration:

- 2.4mm Male
- 2.4mm Male
- FM-102FLEX

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|----------------------------|----------------------------|
| Type | 2.4mm Male | 2.4mm Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec. | ASTM-B488 50µ In. Min | ASTM-B488 50µ In. Min |
| Dielectric Type | PPO | PPO |
| Coupling Nut Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Plating Spec. | SAE-AMS-2700 | SAE-AMS-2700 |
| Hex Size | 5/16 Inch | 5/16 Inch |
| Torque | 8 in-lbs [0.9 Nm] | 8 in-lbs [0.9 Nm] |
| Body Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Body Plating Spec. | SAE-AMS-2700 | SAE-AMS-2700 |

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FMC4040946 - xx uu**

cm = Centimeters
<blank> = Inches

Length

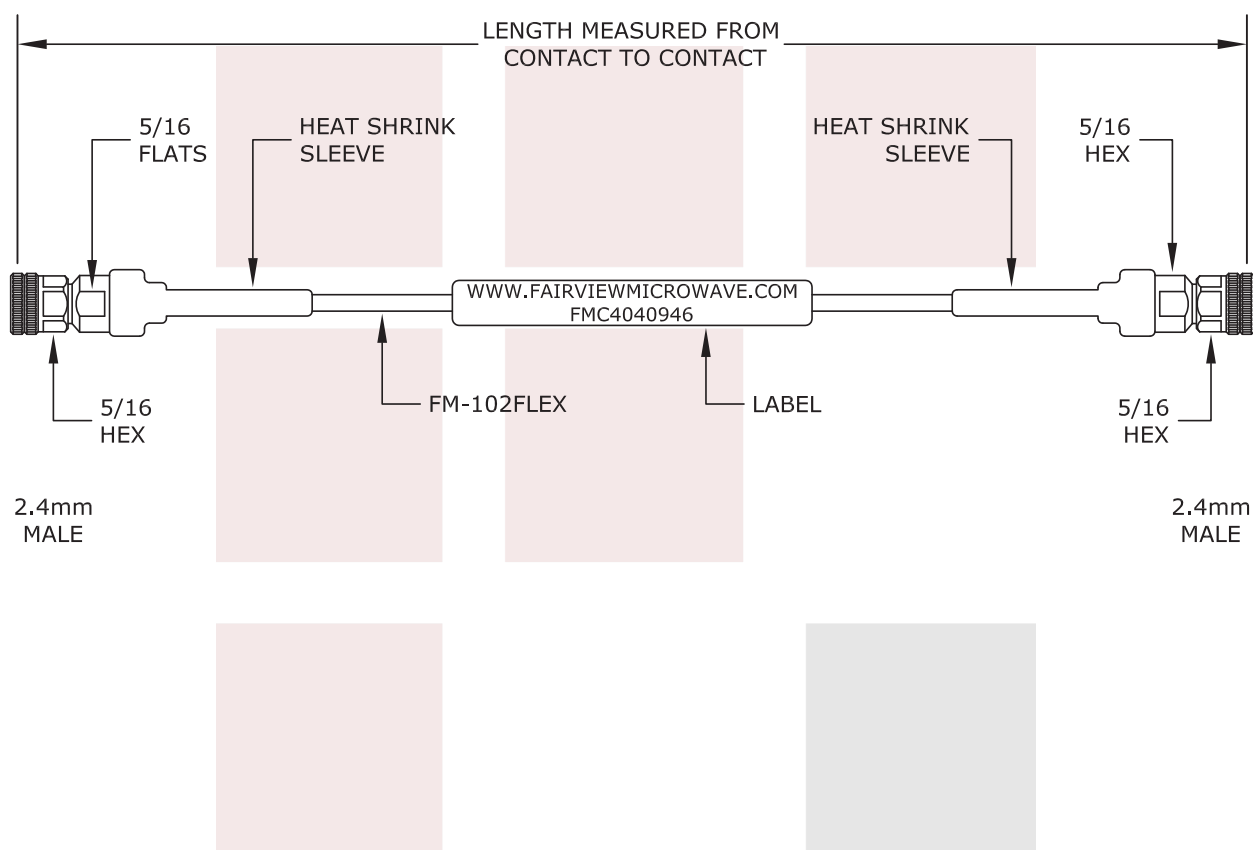
Example: FMC4040946-12 = 12 inches long cable
FMC4040946-100cm = 100 cm long cable

Test 2.4mm Male to 2.4mm Male Cable FM102FLEX Coax in 36 Inch and RoHS Compliant 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: [Test 2.4mm Male to 2.4mm Male Cable FM102FLEX Coax in 36 Inch and RoHS Compliant FMC4040946-36](http://www.fairviewmicrowave.com/test-2.4mm-male-2.4mm-male-cable-fm102flex-coax-fmc4040946-36-p.aspx)

URL: <http://www.fairviewmicrowave.com/test-2.4mm-male-2.4mm-male-cable-fm102flex-coax-fmc4040946-36-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.



NOTE:
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED.
48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

| | | | | | |
|--|-----------------------------|---|---------------------------|-----------|------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | | |
| TITLE Test 2.4mm Male to 2.4mm Male Cable FM102FLEX Coax in 36 Inch and RoHS Compliant | DWG NO FMC4040946 | | CAGE CODE 3FKR5 | | |
| | CAD FILE 033116 | SHEET | SCALE N/A | SIZE A | 2233 |