

Test SMA Male to SMA Male Cable FM160FLEX Coax

The SMA male to SMA male cable using FM160FLEX coax, part number FMC0202914, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible FM-160FLEX coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC0202914 SMA male to SMA male cable assembly operates to 18 GHz. The triple 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 | | 18 | GHz |
| VSWR | | | 1.35:1 | |
| Return Loss | | | -16.54 | dB |
| Velocity of Propagation | | 78 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 26 [85.3] | | pF/ft [pF/m] |
| Inductance | | 66 [216.54] | | uH/ft [uH/m] |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|--------|--------|--------|--------|--------|-------|
| Frequency | 1 | 3 | 6 | 12 | 18 | GHz |
| Insertion Loss (Max.) | 0.12 | 0.22 | 0.32 | 0.48 | 0.6 | dB/ft |
| | 0.39 | 0.72 | 1.05 | 1.57 | 1.97 | dB/m |
| VSWR (Max.) | 1.35:1 | 1.35:1 | 1.35:1 | 1.35:1 | 1.35:1 | |
| Power Handling (Max.) | 1,070 | 620 | 420 | 290 | 200 | W |

Mechanical Specifications

Cable Assembly

| | |
|---------|--------------------|
| Length* | 0 in [0 mm] |
| Weight | 0.069 lbs [31.3 g] |

Cable

| | |
|--------------------------------------|----------------|
| Cable Type | FM-160FLEX |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 3 |



Configuration:

- SMA Male
- SMA Male
- FM-160FLEX

Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 78% Phase Velocity
- Triple Shielded
- ETFE Jacket

Applications:

- General Purpose
- Test & Measurement
- Laboratory Use

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| | |
|-----------------|----------------------|
| Shield Layer 1 | Silver Plated Copper |
| Shield Layer 2 | Aluminum Tape |
| Shield Layer 3 | Silver Plated Copper |
| Jacket Material | ETFE, Gray |
| Jacket Diameter | 0.16 in [4.06 mm] |

| | |
|------------------------------|-------------------|
| One Time Minimum Bend Radius | 0.8 in [20.32 mm] |
| Repeated Minimum Bend Radius | 0.24 in [6.1 mm] |
| Typical Flex Cycles | 10,000 |

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Male |
| Specification | MIL-STD-348 | MIL-PRF-39012 |
| 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. Minimum |
| Dielectric Type | PEI | PTFE |
| Body Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Body Plating Spec. | SAE-AMS-2700 | SAE-AMS-2700 |
| 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 |

Environmental Specifications

Temperature

| | |
|-----------------|-------------------|
| Operating Range | -65 to +165 deg C |
| Storage Range | -65 to +200 deg C |

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

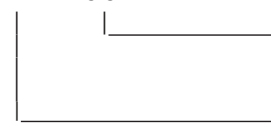
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC0202914 - xx uu


 cm = Centimeters
 <blank> = Inches
 Length

Example: FMC0202914-12 = 12 inches long cable
 FMC0202914-100cm = 100 cm long cable

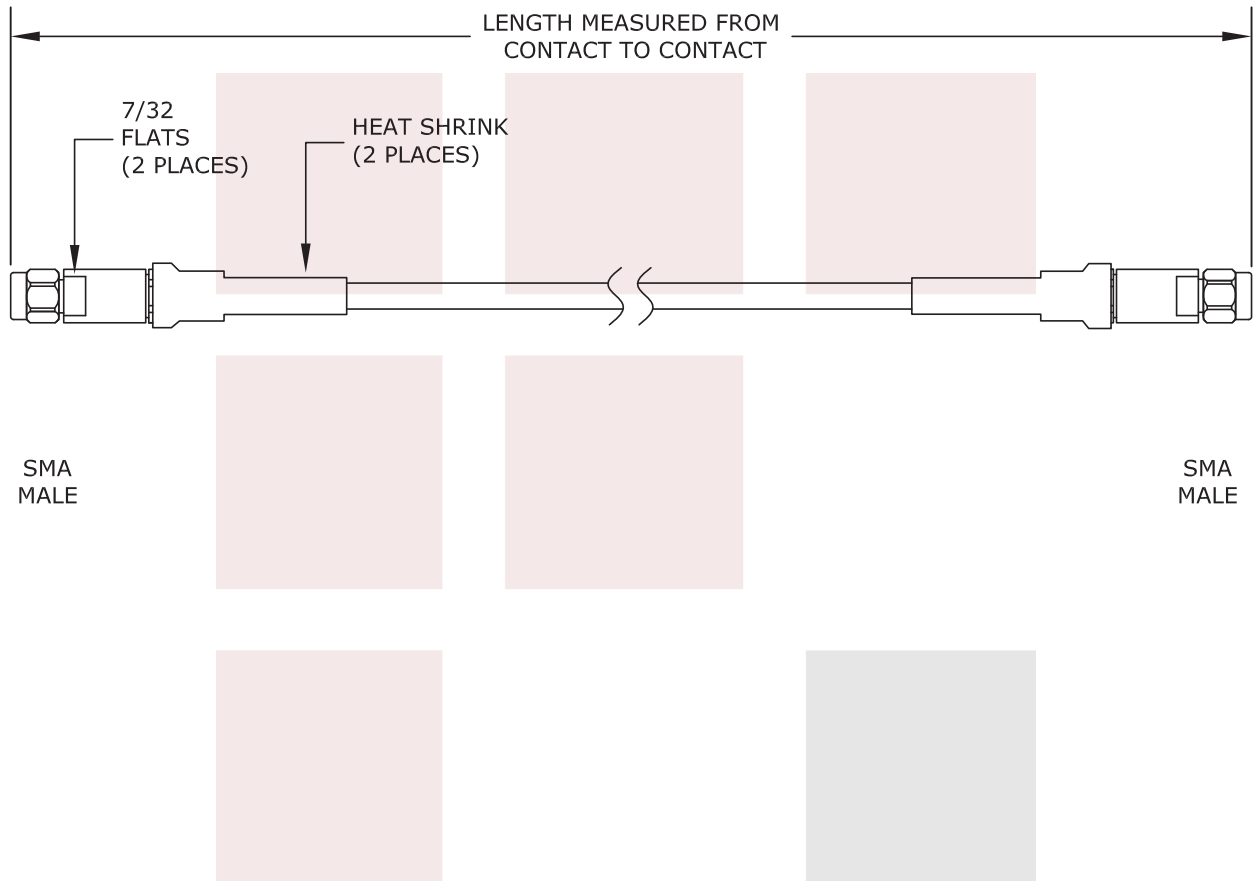
Test SMA Male to SMA Male Cable FM160FLEX Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Test SMA Male to SMA Male Cable FM160FLEX Coax FMC0202914](#)

URL: <https://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm160flex-coax-fmc0202914-p.aspx>

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|---|--------|---|-------|--------------------|-------------|
| 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 SMA Male to SMA Male Cable FM160FLEX Coax | | DWG NO FMC0202914 | | CAGE CODE 3FKR5 | |
| CAD FILE | 080315 | SHEET | SCALE | N/A | SIZE A 2233 |