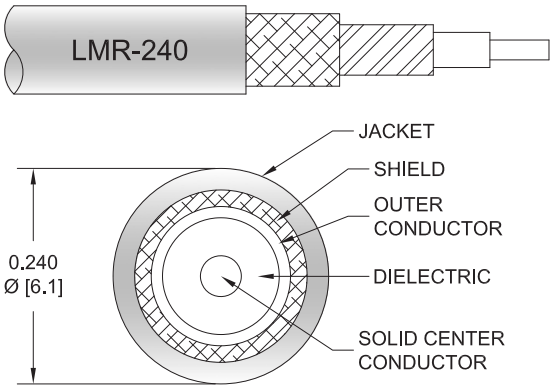
# Low Loss SMA Male to RA SMA Male Weatherproof Cable LMR-240 Coax with Times Microwave Components



## FMCA10076/WP

### Configuration

- Connector 1:  SMA Male
- Connector 2:  SMA Male Right Angle
- Cable Type: LMR-240
- Coax Flex Type: Flexible




### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket
- Silicone Connector Boot
- IP68 Rated

### Applications

- General Purpose
- Laboratory Use

### Description

The Fairview Microwave FMCA10076/WP is a weatherproof low loss cable assembly that comes with SMA male connection with weatherproof boot on one end and SMA male on the other. Fairview Microwave's RF coaxial cable assembly products are designed for typical use, production, laboratory test and measurement, defense/military, aerial antenna towers, etc. The low loss cable has a 50 Ohm impedance and is specifically ready for quicker shipment than most in the industry can provide.

This weatherproof low loss RF cable assembly operates at a maximum frequency of 6 GHz. Our RF cable assembly has a PE jacket with 0.240 inches diameter. The SMA male to SMA male cable assembly FMCA10076/WP is built with LMR-240 coax, which has a flexible design. This RF cable assembly with 0.5 inches diameter has copper as cable's inner conducting material and PE (F) dielectric type. The weatherproof boot low loss cable is reusable and can withstand elements including extreme temperature. Additional dimensions, specifications, and CAD drawings for this FMCA10076/WP low loss RF cable are available on our downloadable PDF datasheet.

Fairview Microwave stocks a wide selection of weatherproof low loss cable assemblies that ship the same business day as ordered from our warehouse. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal SMA male to SMA male cable assembly as per your requirements.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 84 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 24.2 [79.4] | | pF/ft [pF/m] |
| Inductance | | 0.06 [0.2] | | uH/ft [uH/m] |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### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| DC Resistance Inner Conductor | | 3.2 [10.5] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 3.89 [12.76] | | Ohms/1000ft [Ohms/Km] |
| Dielectric Withstanding Voltage (DC) | | | 1,500 | Vdc |
| Jacket Spark | | | 5,000 | Vrms |

### Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|
| | | Frequency | 250 | 500 | 1000 | 2500 | 6000 | MHz | |
| FMCA10076/WP | Custom Lengths Available | Insertion Loss (Typ.) | 0.057 | 0.055 | 0.079 | 0.129 | 0.204 | dB/ft | |
| | | | 0.19 | 0.19 | 0.26 | 0.43 | 0.67 | dB/m | |
| FMCA10076/WP-24 | 24 In | Insertion Loss (Typ.) | 0.38 | 0.41 | 0.46 | 0.56 | 0.71 | dB | 0.605 |
| FMCA10076/WP-36 | 36 In | Insertion Loss (Typ.) | 0.42 | 0.47 | 0.54 | 0.69 | 0.92 | dB | 0.638 |
| FMCA10076/WP-48 | 48 In | Insertion Loss (Typ.) | 0.46 | 0.52 | 0.62 | 0.82 | 1.12 | dB | 0.671 |
| FMCA10076/WP-60 | 60 In | Insertion Loss (Typ.) | 0.5 | 0.58 | 0.7 | 0.95 | 1.32 | dB | 0.704 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

| | | |
|---|---|---|
| Loss due to Connector 1: | 0.1 | dB |
| Loss due to Connector 2: | 0.2 | dB |
| Base Weight: | 0.572 | pounds |
| Additional Weight per Inch: | 0.00275 | pounds |

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.572 lbs [259.45 g] |

**Cable**

| | |
|---|---|
| Cable Type | LMR-240 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper Braid |
| Jacket Material | PE |
| Jacket Diameter | 0.24 in [6.1 mm] |
| One Time Minimum Bend Radius | 0.75 in [19.05 mm] |
| Repeated Minimum Bend Radius | 2.5 in [63.5 mm] |
| Bending Moment | 0.25 lbs-ft [0.34 N-m] |
| Flat Plate Crush | 20 lbs/in [0.36 Kg/mm] |
| Tensile Strength | 80 lbs [36.29 Kg] |


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### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Male | SMA Male Right Angle |
| Option | Weatherproof Boot | |
| Specification | MIL-STD-348 | |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Right Angle |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Specification | ASTM B488 | 50 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | Passivated Stainless Steel, Gold | |
| Body Material and Plating | Passivated Stainless Steel, Gold | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 | |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Plating Specification | SAE-AMS-2700 | |
| Boot Material | Silicone | Silicone |

### Environmental Specifications

| | |
|---|---|
| Ingress Protection (IP) Rating | IP68 |

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

### Plotted and Other Data

Notes:
Values at 25°C, sea level.


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+1 (866) 839-4711 | sales@fairviewmicrowave.com | fairviewmicrowave.com

# Low Loss SMA Male to RA SMA Male Weatherproof Cable LMR-240 Coax with Times Microwave Components



## FMCA10076/WP

### Typical Performance Data

### How to Order

Part Number Configuration: **FMCA10076/WP - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMCA10076/WP — Base Number

Example: FMCA10076/WP-12 = 12 inches long cable
FMCA10076/WP-100cm = 100 cm long cable

Low Loss SMA Male to RA SMA Male Weatherproof Cable LMR-240 Coax with Times Microwave Components from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low Loss SMA Male to RA SMA Male Weatherproof Cable LMR®-240 Coax with Times Microwave Components FMCA10076/WP

URL: https://www.fairviewmicrowave.com/low-loss-sma-male-to-ra-sma-male-weatherproof-cable-lmr-240-coax-with-times-microwave-components-fmca10076-wp-p.aspx

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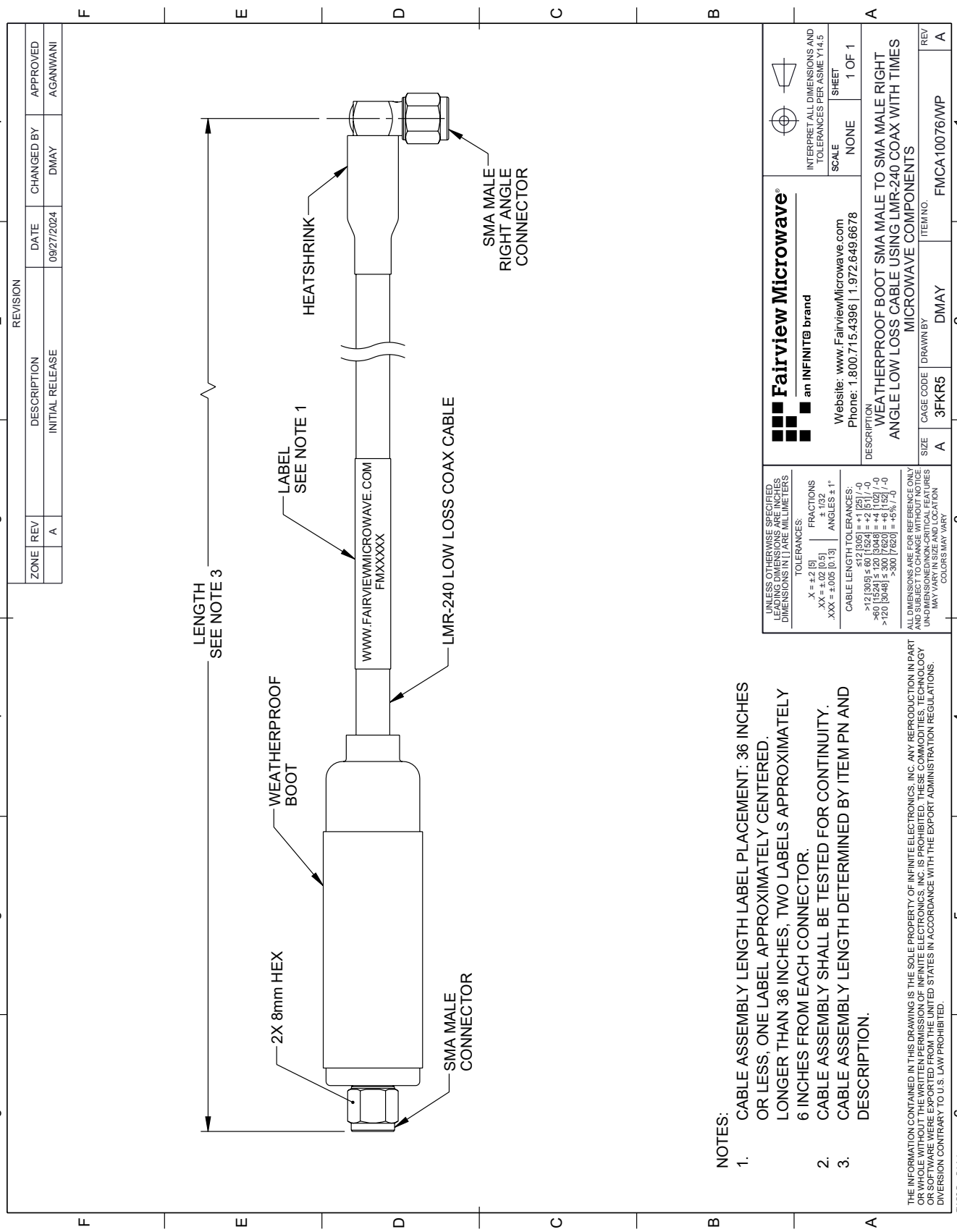
# FMCA10076/WP CAD Drawing

Low Loss SMA Male to RA SMA Male Weatherproof Cable LMR-240 Coax with Times Microwave Components



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