

## SMA Male to SMC Plug Cable RG-188 Coax



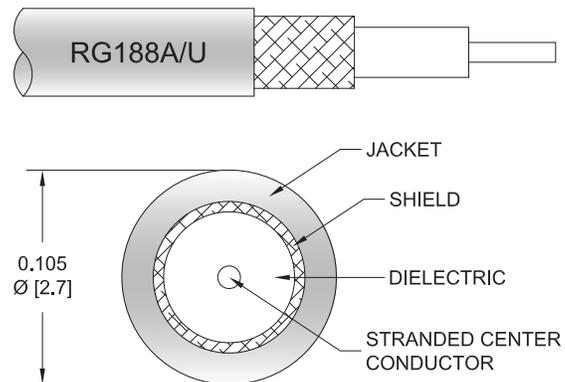
### FMCA100085

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMC Plug
- Cable Type: RG-188
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- PTFE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

The SMA male to SMC plug cable using RG188 coax, part number FMCA100085, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMC cable assembly has a male to plug gender configuration with 50 ohm flexible RG-188 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100085 SMA male to SMC plug 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     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | DC      |         | 3       | GHz   |
| VSWR            |         |         | 1.4:1   |       |

#### Mechanical Specifications

##### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.034 lbs [15.42 g] |

##### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG-188                    |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Stranded                  |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |

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### FMCA100085

|                   |                            |
|-------------------|----------------------------|
| Number of Shields | 1                          |
| Shield Layer 1    | Silver Plated Copper Braid |
| Jacket Material   | PTFE, White                |
| Jacket Diameter   | 0.11 in [2.79 mm]          |

### Connectors

| Description                        | Connector 1    | Connector 2            |
|------------------------------------|----------------|------------------------|
| Type                               | SMA Male       | SMC Plug               |
| Specification                      | MIL-STD-348A   | MIL-STD-348A           |
| Impedance                          | 50 Ohms        | 50 Ohms                |
| Configuration                      | Straight       | Straight               |
| Contact Material and Plating       | Brass, Gold    | Beryllium Copper, Gold |
| Contact Plating Specification      | 50 µin minimum | 30 µin minimum         |
| Dielectric Type                    | PTFE           | PTFE                   |
| Body Material and Plating          | Brass, Gold    | Brass, Nickel          |
| Body Plating Specification         | 3 µin minimum  | 100 µin minimum        |
| Coupling Nut Material and Plating  | Brass, Gold    | Brass, Nickel          |
| Coupling Nut Plating Specification | 3 µin minimum  | 100 µin minimum        |
| Hex Size                           | 5/16 inch      | 1/4 inch               |

### Environmental Specifications

|                             |                   |
|-----------------------------|-------------------|
| Operating Range Temperature | -55 to +165 deg C |
|-----------------------------|-------------------|

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

### Plotted and Other Data

Notes:

## SMA Male to SMC Plug Cable RG-188 Coax



### FMCA100085

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMCA100085**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: FMCA100085-12 = 12 inches long cable  
FMCA100085-100cm = 100 cm long cable

SMA Male to SMC Plug Cable RG-188 Coax 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.

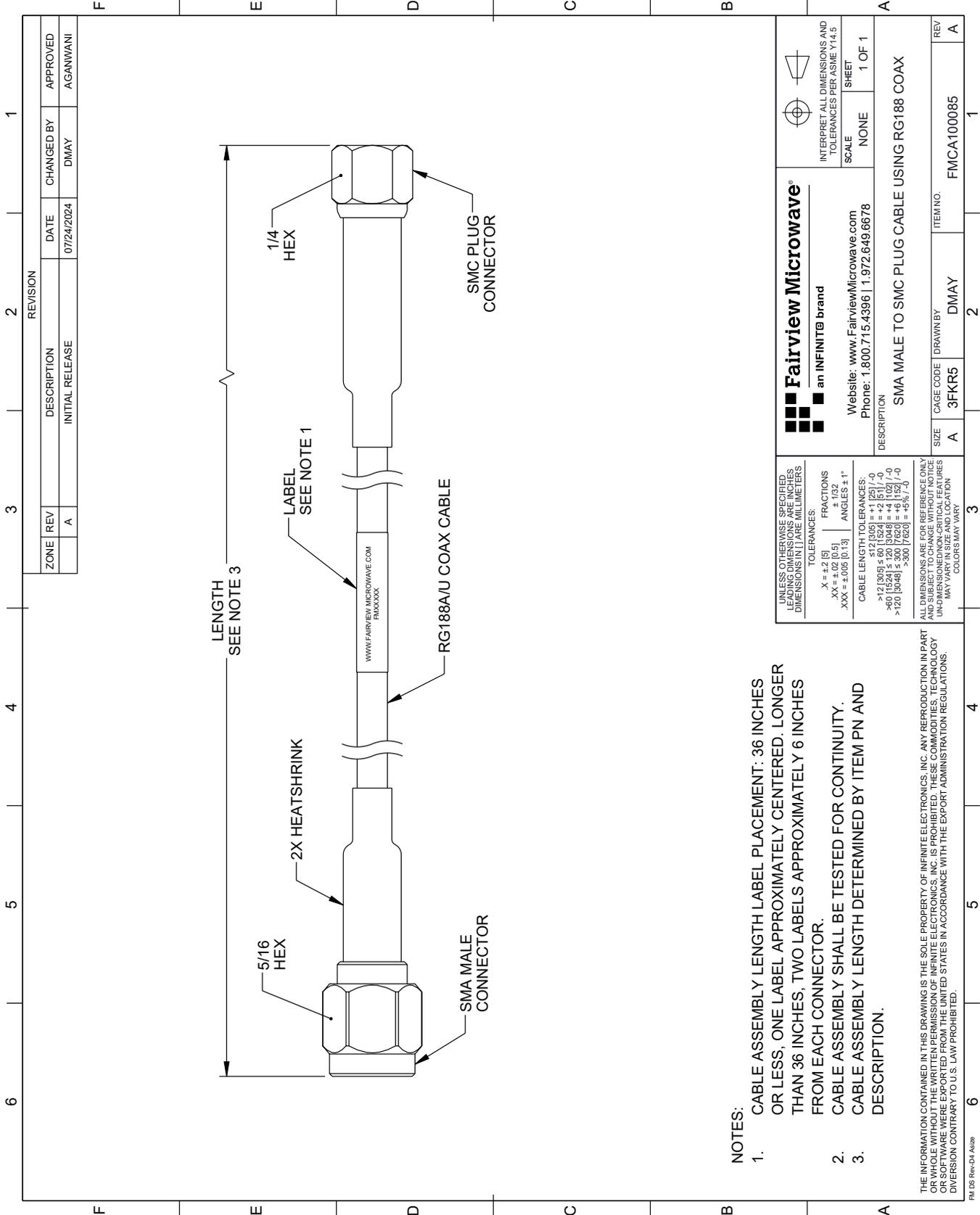
For additional information on this product, please click the following link: [SMA Male to SMC Plug Cable RG-188 Coax FMCA100085](#)

URL: <https://www.fairviewmicrowave.com/sma-male-to-smc-plug-cable-rg188-coax-fmca100085-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# FMCA100085 CAD Drawing

## SMA Male to SMC Plug Cable RG-188 Coax



| REVISION |     | DATE        | CHANGED BY      | APPROVED |          |
|----------|-----|-------------|-----------------|----------|----------|
| ZONE     | REV | DESCRIPTION | INITIAL RELEASE | DMAY     | AGANWANI |
|          | A   |             |                 |          |          |

|   |           |  |
|---|-----------|--|
| <br><b>Fairview Microwave</b> <sup>®</sup><br>an INFINIT <sup>®</sup> brand   |           | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 |
| Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a><br>Phone: 1.800.715.4396   1.972.649.6678 |           | SCALE: NONE<br>SHEET: 1 OF 1                           |
| DESCRIPTION: SMA MALE TO SMC PLUG CABLE USING RG188 COAX  |           |  |
| SIZE  | CAGE CODE | ITEM NO.   |
| A   | 3FKR5     | DMAY   |
|   |           | REV A  |

**NOTES:**

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.

TOLERANCES:  
 .X = ±.2 [5]      FRACTIONS ± 1/32  
 .XX = ±.02 [0.5]      ANGLES ± 1°  
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:  
 >12 [305] ≤ 60 [1524] = ±.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONS/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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