

## SMP Female to SMP Female Cable FM-F086 Coax in 48 Inch with LF Solder

The SMP female to SMP female 48 inch cable using FM-F086 coax, part number FMC2222085LF-48, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to SMP cable assembly has a female to female gender configuration with 50 ohm flexible FM-F086 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC2222085LF-48 SMP female to SMP female cable assembly operates to 18 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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 |              |
| Velocity of Propagation |       | 70.6    |        | %            |
| Capacitance             | 28.95 | [94.98] |        | pF/ft [pF/m] |

### Mechanical Specifications

#### Cable Assembly

|         |                       |
|---------|-----------------------|
| Length* | 48 in [121.92 cm]     |
| Weight  | 0.10504 lbs [47.65 g] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | FM-F086                    |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Solid                      |
| Inner Conductor Material and Plating | Copper, Silver             |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Tape  |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Blue                  |
| Jacket Diameter                      | 0.104 in [2.64 mm]         |



### Configuration:

- SMP Female
- SMP Female
- FM-F086

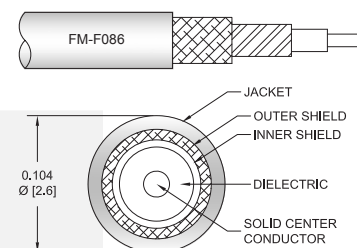
### Features:

- Max Frequency 18 GHz
- 70.6% Phase Velocity
- Double Shielded
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use

### Cable Diagram:



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## Connectors

| Description                | Connector 1            | Connector 2            |
|----------------------------|------------------------|------------------------|
| Type                       | SMP Female             | SMP Female             |
| Impedance                  | 50 Ohms                | 50 Ohms                |
| Contact Material & Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec.      | 30μ in. minimum        | 30μ in. minimum        |
| Dielectric Type            | PTFE                   | PTFE                   |
| Body Material & Plating    | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Plating Spec.         | 30μ in. minimum        | 30μ in. minimum        |

## Environmental Specifications

### Temperature

Operating Range

-65 to +165 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMC2222085LF - xx uu**

cm = Centimeters

<blank> = Inches

Length

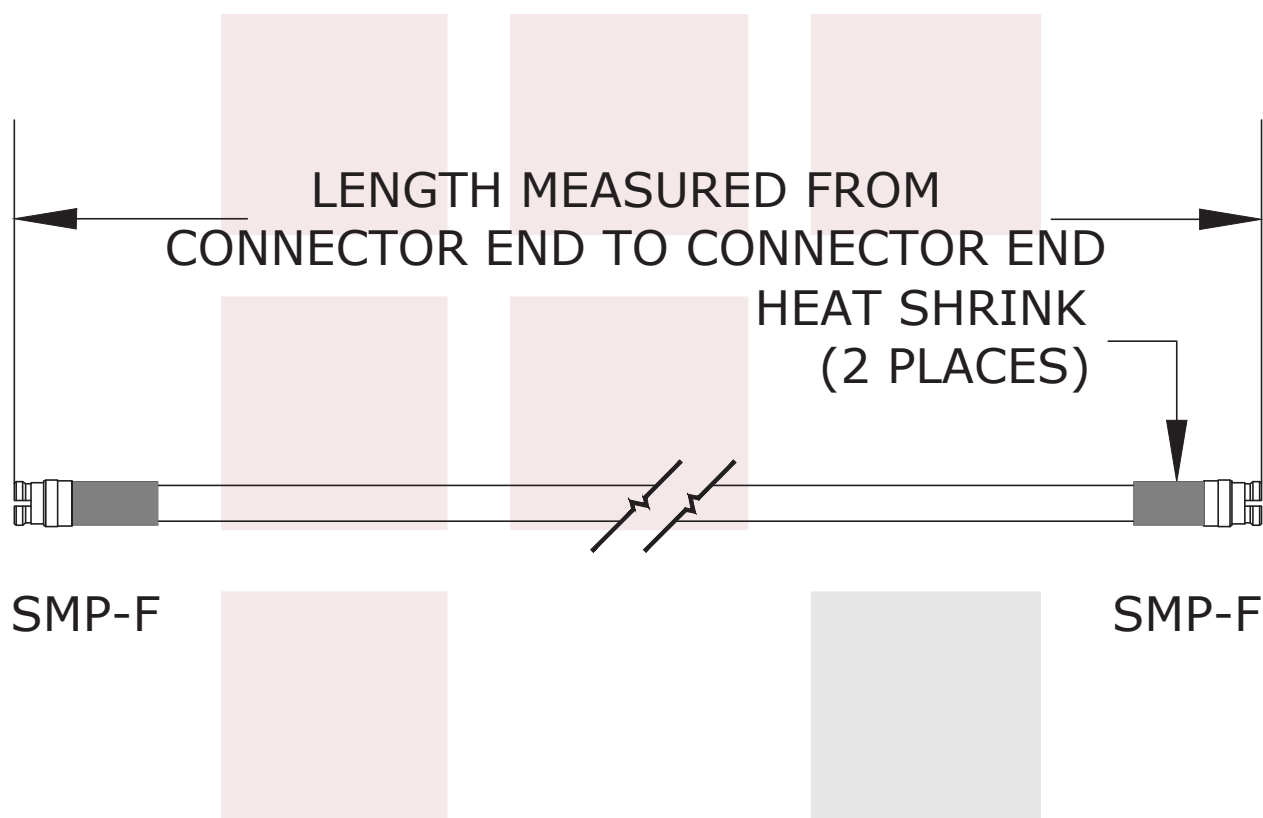
Example: FMC2222085LF-12 = 12 inches long cable  
 FMC2222085LF-100cm = 100 cm long cable

SMP Female to SMP Female Cable FM-F086 Coax in 48 Inch with LF Solder 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: [SMP Female to SMP Female Cable FM-F086 Coax in 48 Inch with LF Solder FMC2222085LF-48](#)

URL: <https://www.fairviewmicrowave.com/standard-smp-female-smp-female-cable-fmf086-coax-fmc2222085lf-48-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.



|                                                                                   |        |                                                                                                                                                                                     |       |                    |             |
|-----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|-------------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM       |        | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |       |                    |             |
| TITLE<br>SMP Female to SMP Female Cable FM-F086 Coax in 48<br>Inch with LF Solder |        | DWG NO<br>FMC2222085LF                                                                                                                                                              |       | CAGE CODE<br>3FKR5 |             |
| CAD FILE                                                                          | 103114 | SHEET                                                                                                                                                                               | SCALE | N/A                | SIZE A 5568 |