

## Push-On RA SMP Female to RA Push-On SMP Female Cable RG-316 Coax in 60 Inch

The RA SMP female push-on to RA SMP female push-on 60 inch cable using RG-316 coax, part number FMC00350-60, 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 RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00350-60 SMP female to SMP female cable assembly operates to 3 GHz. The right angle SMP interfaces on the RG316 cable allow for easier connections in tight spaces.

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           |     | 3     | GHz          |
| VSWR                    |              |     | 1.4:1 |              |
| Velocity of Propagation |              | 69  |       | %            |
| Capacitance             | 29.4 [96.46] |     |       | pF/ft [pF/m] |
| Operating Voltage (AC)  |              |     | 350   | Vrms         |
| Jacket Spark            |              |     | 2,000 | Vrms         |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4  | F5  | Units |
|-----------------------|------|------|------|-----|-----|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1   | 3   | GHz   |
| Insertion Loss (Max.) | 0.95 | 1.05 | 1.25 | 2.3 | 3.3 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 60 in [152.4 cm]  
Diameter 0.157 in [3.99 mm]

#### Cable

Cable Type RG316  
Impedance 50 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Shield Layer 1 Silver Plated Copper Braid



### Configuration:

- Push-OnSMP Female Right Angle
- Push-OnSMP Female Right Angle
- RG316

### Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use

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[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Jacket Material: FEP, Tan  
Jacket Diameter: 0.102 in [2.59 mm]

**Connectors**

| Description                   | Connector 1            | Connector 2            |
|-------------------------------|------------------------|------------------------|
| Type                          | SMP Female             | SMP Female             |
| Specification                 | MIL-STD-348A           | MIL-STD-348A           |
| Impedance                     | 50 Ohms                | 50 Ohms                |
| Connection Method             | Push-On                | Push-On                |
| Contact Material & Plating    | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec.         | 30µ in. minimum        | 30µ in. minimum        |
| Dielectric Type               | PTFE                   | PTFE                   |
| Outer Cond Material & Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Outer Cond Plating Spec.      | 3µ in. minimum         | 3µ in. minimum         |
| Body Material & Plating       | Brass, Gold            | Brass, Gold            |
| Body Plating Spec.            | 3µ in. minimum         | 3µ in. minimum         |

**Environmental Specifications**

**Temperature**  
Operating Range: -55 to +165 deg C

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

**Plotted and Other Data**

Notes:  
• Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**FMC00350 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMC00350-12 = 12 inches long cable  
FMC00350-100cm = 100 cm long cable

Push-On RA SMP Female to RA Push-On SMP Female Cable RG-316 Coax in 60 Inch 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.

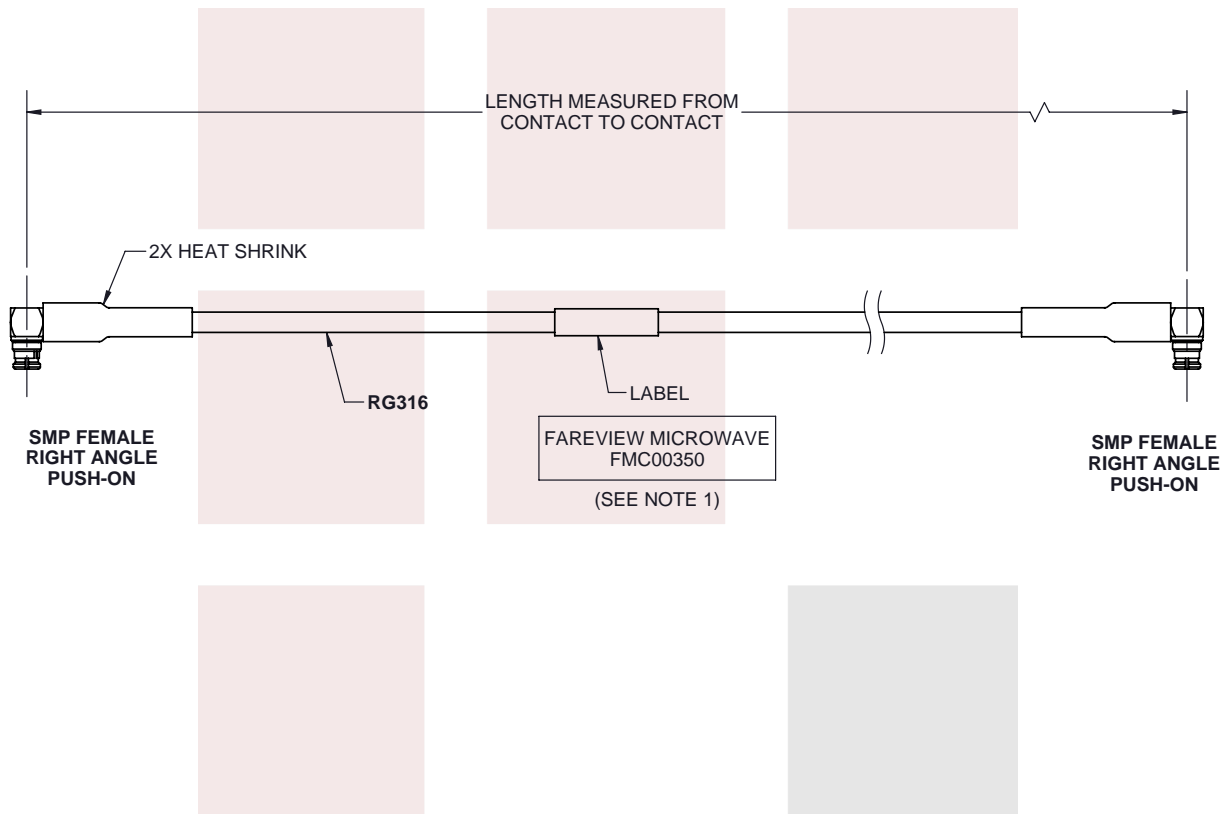
Click the following link to obtain additional part information: [Push-On RA SMP Female to RA Push-On SMP Female Cable RG-316 Coax in 60 Inch FMC00350-60](#)

URL: <https://www.fairviewmicrowave.com/ra-smp-female-ra-smp-female-cable-rg316-coax-fmc00350-60-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.



| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 09/01/20 | SELLIS   |



**NOTES:**

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

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|   |   |   |                                      |           |                             |                    |        |   |                      |             |  |  |  |   |  |  |                            |  |
|---|---|---|--------------------------------------|-----------|-----------------------------|--------------------|--------|---|----------------------|-------------|--|--|--|---|--|--|----------------------------|--|
| <p><b>Fairview Microwave</b><br/>an INFINIT<sup>®</sup> brand</p>                               | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:                      CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2 [ .508 ]</td> <td>FRACTIONS</td> <td>L ≤ 12 [305] = +1 [25] / -0</td> </tr> <tr> <td>.XX = ±.02 [ .51 ]</td> <td>± 1/32</td> <td>12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0</td> </tr> <tr> <td>.XXX = ±.005 [ .13 ]</td> <td>ANGLES ± 1°</td> <td>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td></td> <td></td> <td>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0</td> </tr> <tr> <td></td> <td></td> <td>300 [7620] &lt; L = +5%L / -0</td> </tr> </table> |   | .X = ±.2 [ .508 ]                    | FRACTIONS | L ≤ 12 [305] = +1 [25] / -0 | .XX = ±.02 [ .51 ] | ± 1/32 | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 | .XXX = ±.005 [ .13 ] | ANGLES ± 1° | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 |  |  | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 |  |  | 300 [7620] < L = +5%L / -0 | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> |
|   | .X = ±.2 [ .508 ]   | FRACTIONS                                   | L ≤ 12 [305] = +1 [25] / -0          |           |                             |                    |        |   |                      |             |  |  |  |   |  |  |                            |  |
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| <p>TITLE</p> <p>Push-On RA SMP Female to RA Push-On SMP Female Cable RG-316 Coax in 60 Inch</p> | <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>   |   | <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |           |                             |                    |        |   |                      |             |  |  |  |   |  |  |                            |  |
| <p>SIZE A</p> <p>CAGE CODE 3FKR5</p>  | <p>DRAWN BY BPUCHASKI</p>   | <p>ITEM NO. FMC00350</p>                    | <p>REV A</p>                         |           |                             |                    |        |   |                      |             |  |  |  |   |  |  |                            |  |

T-Rev.D