

Push-On RA SMP Female to RA MCX Plug Cable RG-316 Coax in 36 Inch

The RA SMP female push-on to RA MCX plug 36 inch cable using RG-316 coax, part number FMC00349-36, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to MCX cable assembly has a female to plug 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 FMC00349-36 SMP female to MCX plug cable assembly operates to 3 GHz. The right angle SMP and right angle MCX 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) | | | 250 | 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.) | 0.73 | 0.79 | 0.91 | 1.54 | 2.14 | 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* 36 in [914.4 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
Jacket Material FEP, Tan



Configuration:

- Push-OnSMP Female Right Angle
- MCX Plug Right Angle
- RG316

Features:

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

Applications:

- General Purpose
- Laboratory Use

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Jacket Diameter 0.102 in [2.59 mm]

Connectors

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

Environmental Specifications

Temperature

Operating Range -40 to +60 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:

FMC00349 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMC00349-12 = 12 inches long cable
 FMC00349-100cm = 100 cm long cable

Push-On RA SMP Female to RA MCX Plug Cable RG-316 Coax in 36 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 MCX Plug Cable RG-316 Coax in 36 Inch FMC00349-36](https://www.fairviewmicrowave.com/ra-smp-female-ra-mcx-plug-cable-rg316-coax-fmc00349-36-p.aspx)

URL: <https://www.fairviewmicrowave.com/ra-smp-female-ra-mcx-plug-cable-rg316-coax-fmc00349-36-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 | S.ELLIS |

2X HEAT SHRINK

RG316

LENGTH MEASURED FROM CONTACT TO CONTACT

LABEL

FAIRVIEW MICROWAVE
FMC00349
(SEE NOTE 1)

SMP FEMALE
RIGHT ANGLE
PUSH-ON

MCX PLUG
RIGHT ANGLE

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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Fairview Microwave

an INFINIT® brand

TITLE

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

| TOLERANCES: | | CABLE LENGTH (L) TOLERANCES: | |
|--------------|--------|------------------------------|---|
| .X = ±.2 | [.508] | FRACTIONS | L ≤ 12 [305] = +1 [25] / -0 |
| .XX = ±.02 | [.51] | | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 |
| .XXX = ±.005 | [.13] | ± 1/32 | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 |
| | | ANGLES ± 1° | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 |
| | | | 300 [7620] < L = +5%L / -0 |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

| | | | | |
|------|-----------|-----------|----------|-----|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
| A | 3FKR5 | BPUCHASKI | FMC00349 | A |

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A