

Push-On RA SMP Female to RA MCX Plug Cable RG-316 Coax in 50 cm

The RA SMP female push-on to RA MCX plug 50 cm cable using RG-316 coax, part number FMC00349-50CM, 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 FMC00349-50CM 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.)	0.58	0.61	0.68	1.02	1.35	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* 19.68 in [499.87 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

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

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 50 cm 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 50 cm FMC00349-50CM](#)

URL: <https://www.fairviewmicrowave.com/ra-smp-female-ra-mcx-plug-cable-rg316-coax-fmc00349-50cm-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

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 [.51]
.XX = ±.02 [.51]
.XXX = ±.005 [.13]

FRACTIONS
± 1/32
ANGLES ± 1°

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE
A

CAGE CODE
3FKR5

DRAWN BY
BPUCHASKI

ITEM NO.
FMC00349

REV
A

THIRD-ANGLE PROJECTION

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DESIGN IN THIS DOCUMENT
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SHEET
1

OF
1

SCALE
N/A

T-Rev.D

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

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