

## Low Loss RA SMB Plug to BNC Female Cable RG-316 Coax in 36 Inch with Times Microwave components

The RA SMB plug to BNC female 36 inch cable using RG-316 coax, part number FMC00282-36, from Fairview Microwave is in-stock and ships same day. This Fairview SMB to BNC cable assembly has a plug 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 FMC00282-36 SMB plug to BNC female cable assembly operates to 3 GHz. The right angle SMB interface on the RG316 cable allows 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)			335	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 (Typ.)	0.62	0.77	1.01	1.43	2.03	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

Length*	36 in [914.4 mm]
Diameter	0.453 in [11.51 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



### Configuration:

- SMB Plug Right Angle
- BNC Female
- 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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Shield Layer 1  
 Jacket Material  
 Jacket Diameter

Silver Plated Copper Braid  
 FEP, Tan  
 0.102 in [2.59 mm]

## Connectors

Description	Connector 1	Connector 2
Type	SMB Plug	BNC Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Spec.	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Nickel
Body Plating Spec.	3 µin minimum	100 µin minimum

## Environmental Specifications

### Temperature

Operating Range -55 to +200 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMC00282 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMC00282-12 = 12 inches long cable  
 FMC00282-100cm = 100 cm long cable

Low Loss RA SMB Plug to BNC Female Cable RG-316 Coax in 36 Inch with Times Microwave components 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: [Low Loss RA SMB Plug to BNC Female Cable RG-316 Coax in 36 Inch with Times Microwave components FMC00282-36](#)

URL: <https://www.fairviewmicrowave.com/ra-smb-plug-bnc-female-cable-rg316-coax-fmc00282-36-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	2/25/2020	S.ELLIS

LENGTH MEASURED FROM CONTACT TO CONTACT

2X HEAT SHRINK SLEEVE

RG316

CONTACT

SMB PLUG RA

CONTACT

BNC FEMALE

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<div><div><div></div><div></div><div></div><div></div></div><div><div>Fairview Microwave</div><div>an INFINITE brand</div></div></div> <div><p>TITLE</p><p>Low Loss RA SMB Plug to BNC Female Cable RG-316 Coax in 36 Inch with Times Microwave components</p></div>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <table><thead><tr><th colspan="2">TOLERANCES:</th><th colspan="2">CABLE LENGTH (L) TOLERANCES:</th></tr></thead><tbody><tr><td>.X = ±.2 [5.08]</td><td>FRACTIONS ± 1/32</td><td>L ≤ 12 [305] = +1 [25] / -0</td><td></td></tr><tr><td>.XX = ±.02 [.51]</td><td></td><td>12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0</td><td></td></tr><tr><td>.XXX = ±.005 [.13]</td><td>ANGLES ± 1°</td><td>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0</td><td></td></tr><tr><td></td><td></td><td>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0</td><td></td></tr><tr><td></td><td></td><td>300 [7620] &lt; L = +5%L / -0</td><td></td></tr></tbody></table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> <table><tr><td>SIZE</td><td>CAGE CODE</td><td>DRAWN BY</td><td>ITEM NO.</td><td>REV</td></tr><tr><td>A</td><td>3FKR5</td><td>K.DANG</td><td>FMC00282</td><td>A</td></tr></table>	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:		.X = ±.2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0		.XX = ±.02 [.51]		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		SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	A	3FKR5	K.DANG	FMC00282	A	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> <table><tr><td>SHEET</td><td>1</td><td>OF</td><td>1</td></tr><tr><td colspan="4">SCALE</td></tr><tr><td colspan="4">N/A</td></tr></table>	SHEET	1	OF	1	SCALE				N/A			
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301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

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