

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

The RA SMB plug to BNC female cable using RG-316 coax, part number FMC00282, 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 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.) | 0.1 | 0.15 | 0.23 | 0.37 | 0.57 | dB/ft |
| | 0.33 | 0.49 | 0.75 | 1.21 | 1.87 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

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
 Shield Layer 1 Silver Plated Copper Braid
 Jacket Material FEP, Tan



Configuration:

- SMB Plug Right Angle
- BNC Female
- 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 | 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 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 with Times Microwave components FMC00282](#)

URL: <https://www.fairviewmicrowave.com/ra-smb-plug-bnc-female-cable-rg316-coax-fmc00282-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 | | | |
|-----------|-----------------|-----------|----------|
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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><div>TITLE</div><div>Low Loss RA SMB Plug to BNC Female Cable RG-316 Coax with Times Microwave components</div></div> | <div>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</div> <div><div>TOLERANCES:</div><div>.X = ±.2 [.51] .XX = ±.02 [.51] .XXX = ±.005 [.13]</div><div><div>FRACTIONS</div><div>± 1/32</div><div>ANGLES ± 1°</div></div></div> <div><div>CABLE LENGTH (L) TOLERANCES:</div><div>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</div></div> <div>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</div> <div><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></div> | SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV | A | 3FKR5 | K.DANG | FMC00282 | A | <div>THIRD-ANGLE PROJECTION</div> <div></div> <div>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</div> <div><table><tr><td>SHEET</td><td>1</td><td>OF</td><td>1</td></tr><tr><td>SCALE</td><td colspan="3">N/A</td></tr></table></div> | SHEET | 1 | OF | 1 | SCALE | N/A | | |
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