

RA SMB Plug (Male) Connector Crimp Attachment for LMR-100A-PVC, RG174, RG174NM, RG188, RG316, 0.100 Inch Cable



FMCN5445

Configuration

- SMB Plug Connector
- MIL-STD-202
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: LMR-100A-PVC, RG174, RG174NM, RG188, RG316, 0.100 Inch cable

Features

- Operating Frequency of 4 GHz Max.
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

RA SMB Plug Connector Crimp Attachment for LMR-100A-PVC, RG174, RG174NM, RG188, RG316 and 0.100 Inch Cable, part number FMCN5445, from Fairview Microwave is in-stock and ships same day. This SMB plug connector operates up to a maximum frequency of 4 GHz and offers excellent VSWR of 1.2:1. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA SMB plug connector FMCN5445 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.2:1	
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			5	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	10,000			MOhms
Impedance		50		Ohms

Electrical Specification Notes:
Insertion loss is = $0.1 \cdot \sqrt{f(\text{GHz})}$ dB

Mechanical Specifications

Size

Length	0.49 in [12.45 mm]
Width	0.49 in [12.45 mm]
Height	0.565 in [14.35 mm]
Weight	0.006 lbs [2.72 g]
Mating Cycles	500 Cycles
Mating Torque	1.8 to 14.2 in-lbs [0.20 to 1.60 Nm]

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Cable Retention Force	4 lbs [1.81 kg]
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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel over Copper
Insulation	PTFE	
Body	Brass	Gold over Nickel over Copper
Coupling Nut	Brass	Gold over Nickel over Copper
Retaining Ring	Beryllium Copper	Copper-Tin-Zinc Alloy
Crimp Sleeve	Brass	Gold over Nickel over Copper

Environmental Specifications

Temperature

Operating Range

-65 to 165 deg C

Humidity

MIL-STD-202, Method 106

Shock

MIL-STD-202, Method 107, Condition B

Salt Spray

MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

RA SMB Plug (Male) Connector Crimp Attachment for LMR-100A-PVC, RG174, RG174NM, RG188, RG316, 0.100 Inch Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RA SMB Plug \(Male\) Connector Crimp Attachment for LMR-100A-PVC, RG174, RG174NM, RG188, RG316, 0.100 Inch Cable FMCN5445](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/smb-plug-lmr-100a-pvc-rg174-rg174nm-rg188-rg316-0.100-connector-fmcn5445.html>

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FMCN5445 CAD Drawing

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