

SSMC Plug Connector for RG316-DS,  
RG188-DS Cable, Crimp/Solder, Gold Plated  
Beryllium Copper Body, Length 0.7 In



**FMCN1292**

**Configuration**

- SSMC Plug Connector
- 50 Ohms

- Straight Body Geometry
- Connector Interface Types: RG188-DS, RG316-DS

**Features**

- Operating Frequency of 12.4 GHz Max.
- Good VSWR of 1.5:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

- Small SSMC connector form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- IEC 60169-20 SSMC connector interface
- In stock and ready to ship

**Applications**

- General Purpose Test
- Custom Cable Assemblies
- Software defined radio (SDR)
- Avionics
- A/D Modules

- Ultra Wideband Digital Receivers
- Data Acquisition
- RADAR/SONAR
- Medical equipment

**Description**

SSMC Plug Connector Crimp/Solder Attachment for RG188-DS and RG316-DS Cable, part number FMCN1292, from Fairview Microwave is in-stock and ships same day. This SSMC plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.5:1.

Fairview's SSMC plug connector FMCN1292 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		12.4	GHz
VSWR			1.5:1	
Insertion Loss			0.3	dB
Operating Voltage (AC)			250	Vrms
High Potential Voltage 5 MHz			400	Vrms
Inner Conductor DC Resistance			4	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	1,000			MOhms
RF Leakage	-50			dB
Impedance		50		Ohms

**Mechanical Specifications**

**Size**

Length

0.7 in [17.78 mm]

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Width	0.156 in [3.96 mm]
Height	0 in [0 mm]
Weight	0.007 lbs [3.18 g]
Mating Cycles	500 Cycles
Mating Torque	1.75 to 2 in-lbs [[0.20 to 0.23 Nm]]

**Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Insulation	Teflon	
Body	Beryllium Copper	Gold MIL-G-45204
Coupling Nut	Beryllium Copper	Gold MIL-G-45207
Crimp Sleeve	Brass	Gold MIL-G-45204

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-65 to +165 deg C
Shock	Method 213, Condition B, 75G @6ms @1/2 sine
Vibration	Method 204, Condition D (20G)
Salt Spray	Method 101, Condition B, 5% salt solution

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

**Plotted and Other Data**

Notes:

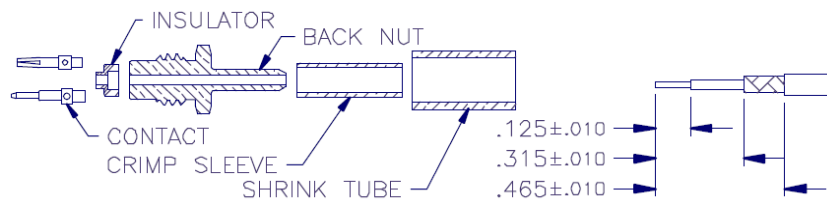
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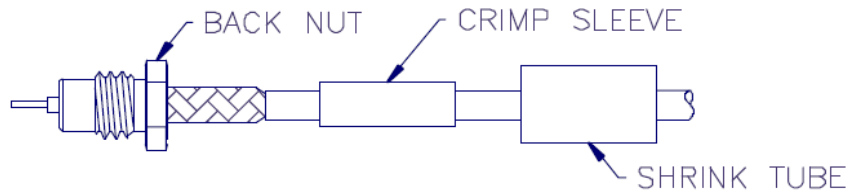


**Assembly Instruction**

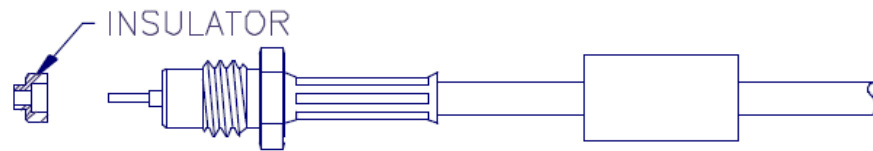
Assembly Instructions



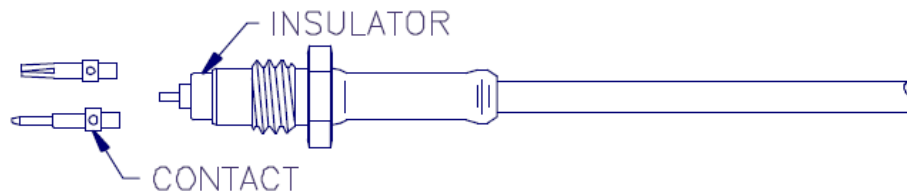
1. TRIM CABLE AS SHOWN ABOVE. TIN END OF CENTER CONDUCTOR.
2. SLIDE CRIMP SLEEVE AND SHRINK TUBE (IF SUPPLIED) OVER CABLE JACKET.
3. FLARE CABLE BRAID OUT SLIGHTLY BY ROTATING DIELECTRIC.



4. INSERT CABLE INTO TAIL-END OF BACK NUT, MAKING SURE TAIL GOES OVER DIELECTRIC AND UNDER BRAID. SLIDE IN UNTIL BRAID TOUCHES REAR SURFACE OF NUT.
5. SLIDE CRIMP SLEEVE FORWARD AND USE .151" HEX DIE TO CRIMP.



6. POSITION INSULATOR OVER CABLE DIELECTRIC AND CENTER CONDUCTOR.



7. SOLDER CONTACT TO CENTER CONDUCTOR.
8. INSERT CABLE ASSEMBLY INTO BODY AND TIGHTEN NUT WITH A TORQUE WRENCH WITH A TORQUE OF 35-45 INCH-OUNCES.
9. SLIDE SHRINK TUBE (IF SUPPLIED) OVER CRIMP SLEEVE AND SHRINK TO FIT.

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For additional information on this product, please click the following link: [SSMC Plug Connector for RG316-DS, RG188-DS Cable, Crimp/Solder, Gold Plated Berllium Copper Body, Length 0.7 In FMCN1292](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/ssmc-plug-rg188-ds-rg316-ds-connector-fmcn1292.html>

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# FMCN1292 CAD Drawing

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