

## N Male Precision Connector Clamp/Solder Attachment for LL142 Cable

Type N male precision connector with clamp/solder attachment for LL142, part number FMCN1084, from Fairview Microwave is in-stock and ships same day. This type N male connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.16:1.

Fairview's type N male connector FMCN1084 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	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.16:1	
Insertion Loss			0.22	dB
Operating Voltage (AC)			335	Vrms
DWV (AC)			1,000	Vrms
High Potential Voltage 5 to 7.5 MHz			670	Vrms
Corona Discharge at 70,000 ft.			250	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	90			dB

#### Electrical Specification Notes:

Insertion loss =  $0.04 \times \sqrt{f}$  (GHz) dB max.

Operating voltage is specified at sea level (derated to 85 Vrms at 70,000 ft).

### Mechanical Specifications

#### Size

Length	1.26 in [32 mm]
Width/Dia.	0.822 in [20.88 mm]
Height	0.395 in [10.03 mm]
Weight	0.059 lbs [26.76 g]
Mating Cycles	500 Cycles
Mating Torque	19 to 21 in-lbs [2.15 to 2.37 Nm]

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PTFE	



### Configuration:

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- LL142 Interface Type
- Clamp/Solder Attachment
- 3/4 inch Hex
- Precision Design

### Features:

- Operating Frequency of 18 GHz Max.
- Excellent VSWR of 1.16:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

### Applications:

- General Purpose Test
- Precision Test & Measurement
- Custom Cable Assemblies

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Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700

**Environmental Specifications**

**Temperature**

Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method 106, No Vibration
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition D
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B (5%)

Environmental Specification Notes:

Thermal Shock: MIL-STD-107, Condition B  
 Moisture Resistance: MIL-STD-202, Method 106, (No Vibration)

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

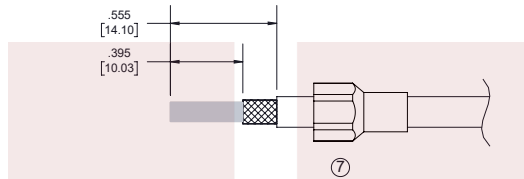
**Plotted and Other Data**

Notes:

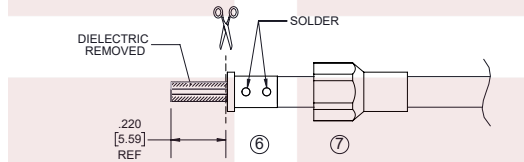
**Assembly Instruction**

**ASSEMBLY INSTRUCTION**

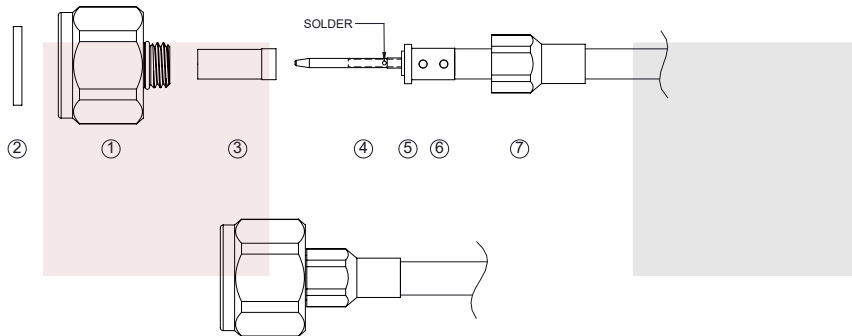
1. SLIDE CLAMP NUT (7) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET.



2. INSERT CABLE INTO SOLDER FERRULE (6) UNTIL CABLE STOP THEN SOLDER BOTH CABLE BRAIDS WHERE SHOWN. USING BLADES TO CUT DIELECTRIC FLUSH WITH FACE OF FERRULE. DO NOT NICK CENTER CONDUCTOR.



3. INSERT SPACER (5) AND CONTACT (4) INTO CABLE ASSEMBLY UNTIL STOP AND SOLDER CONTACT (4) TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. SLIDE INSULATOR (3) OVER CONTACT THEN INSERT CABLE ASSEMBLY INTO BODY (1) & TIGHTEN. INSERT RUBBER GASKER (2) INTO BODY COUPLING (1).



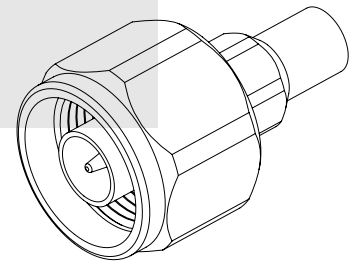
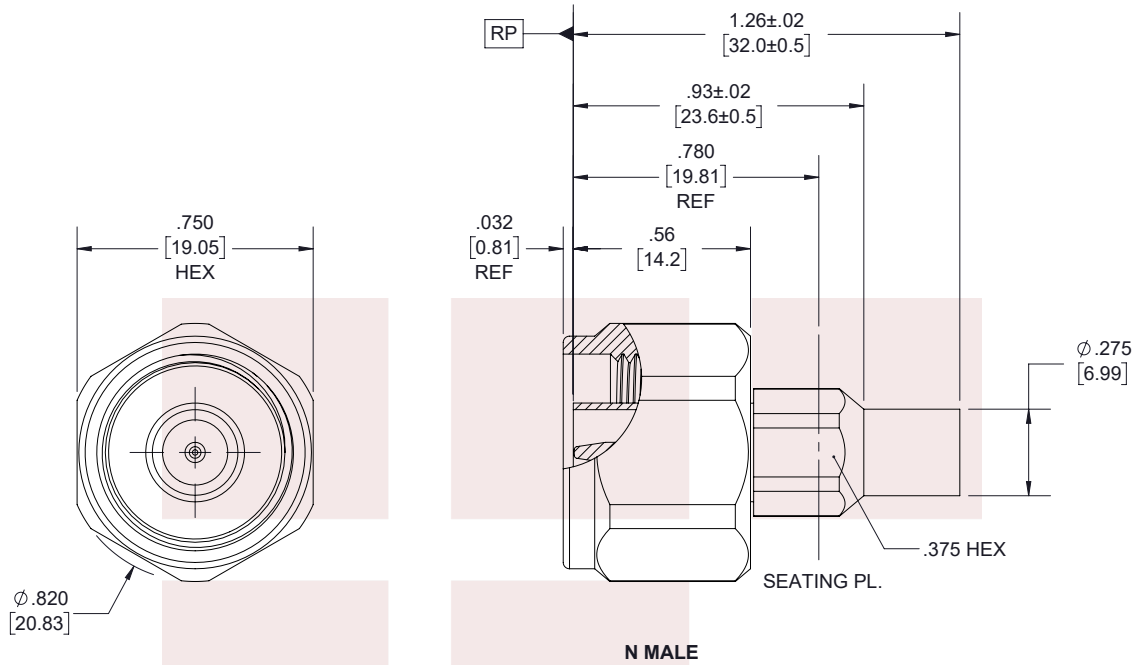
N Male Precision Connector Clamp/Solder Attachment for LL142 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [N Male Precision Connector Clamp/Solder Attachment for LL142 Cable FMCN1084](#)

URL: <https://www.fairviewmicrowave.com/n-male-ll142-connector-fmcn1084-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.





STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>		<p>NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].</p>						
<p>TITLE N Male Precision Connector Clamp/Solder Attachment for LL142 Cable</p>		<p>DWG NO <b>FMCN1084</b></p>		<p>CAGE CODE <b>3FKR5</b></p>				
CAD FILE	06/11/19	SHEET	1 OF 1	SCALE	N/A	SIZE	A	7361