

## N Female Low PIM Connector Clamp/Non-Solder Contact Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250, IP67 Rated

Type N female connector with clamp/non-solder contact attachment for 1/4 inch Superflexible, FM-1/4SFHC, SPP-250-LLPL, SPO-250 and SPF-250, part number FMCN44727, from Fairview Microwave is in-stock and ships same day. This type N female connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.1:1. The type N female connector also has low passive intermodulation (PIM) of -160 dBc. Our FMCN44727 connector has an IP67 rating to protect against dust and temporary moisture protection under immersion conditions.

Fairview's type N female connector FMCN44727 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		3	GHz
VSWR			1.1:1	
Insertion Loss			0.1	dB
Passive Intermodulation using 2x20W tones			-160	dBc
Operating Voltage (DC)			1,700	Vdc
DWV (DC)			2,500	Vdc
Insulation Resistance	5,000			MOhms

### Mechanical Specifications

<b>Size</b>	
Length	1.87 in [47.5 mm]
Width/Dia.	0.63 in [16.00 mm]
Height	0.63 in [16 mm]
Weight	0.164 lbs [74.39 g]
Mating Cycles	500 Cycles

### Material Specifications

Description	Material	Plating
Contact	Spring Copper	Silver 5 µm minimum
Insulation	PTFE	
Outer Conductor	Brass	Nickel 5 µm minimum
Body	Brass	Tri-Metal 2 µm minimum



### Configuration:

- N Female Connector
- IEC 60169-16
- 50 Ohms
- Straight Body Geometry
- 1/4 inch Superflexible, FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Interface Type
- Clamp/Non-Solder Contact Attachment
- Low PIM Design

### Features:

- Operating Frequency of 3 GHz Max.
- Excellent VSWR of 1.1:1
- PIM levels better than -160 dBc
- Silver Plated Spring Copper Contact
- 5 µm minimum contact plating
- IP67 Rated

### Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

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**Environmental Specifications**

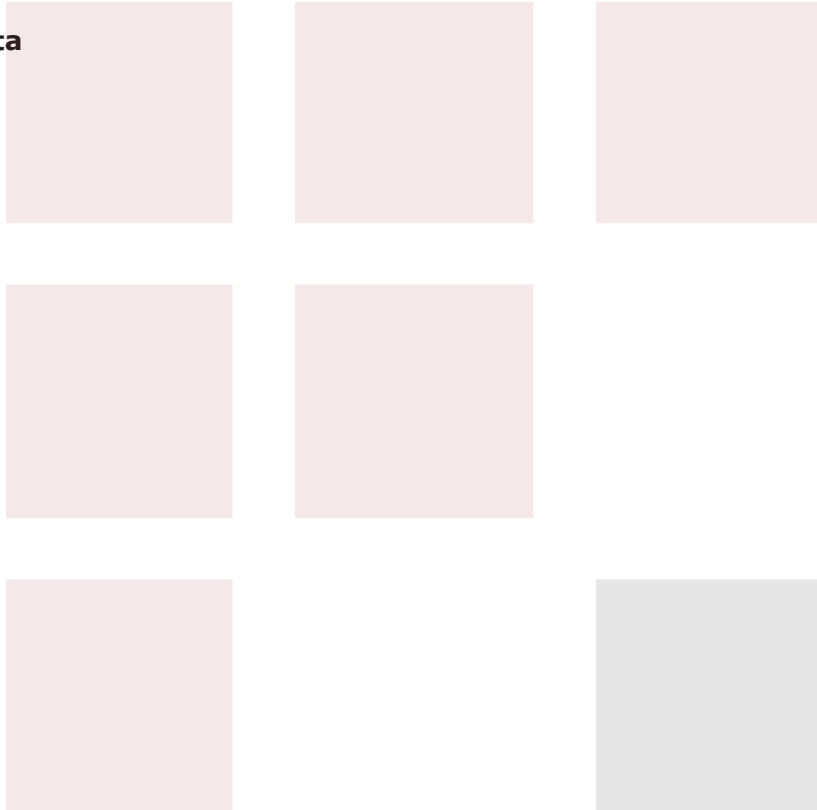
**Temperature**

Operating Range	-40 to +85 deg C
Ingress Protection (IP) Rating	IP67 Rated
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6-Fc
Thermal Shock	IEC 60068-2-14-Na

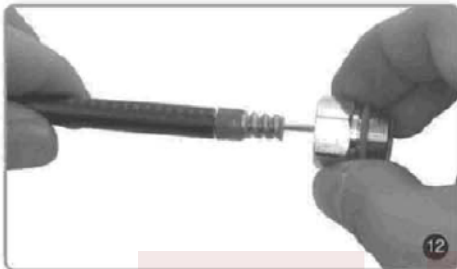
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

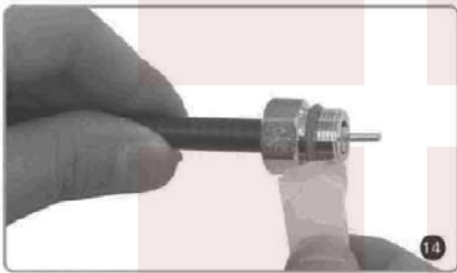
Notes:



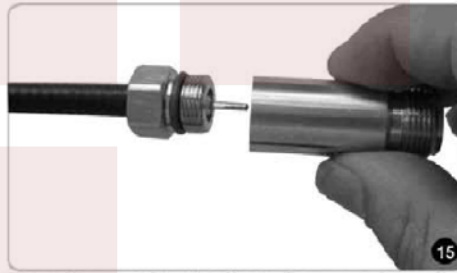
**Assembly Instruction**



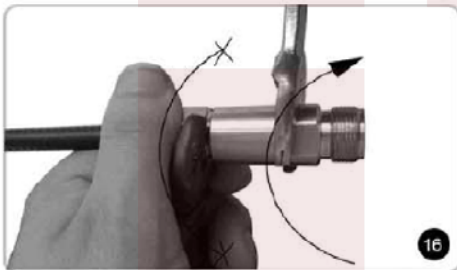
The front sawing edges of clamp and outer conductor should be flat.



Wipe the O-ring with grease.



screw the connector head onto the connector end.

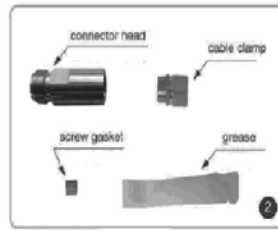


Keep the clamp steady, screw the connector head onto the cable tightly. Recommended torque is 15 N-m.

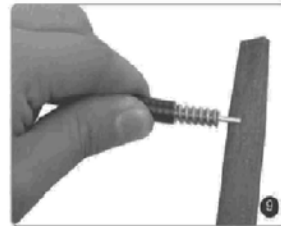
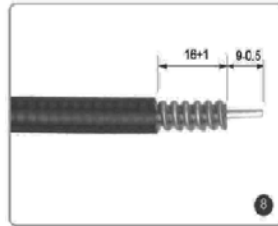
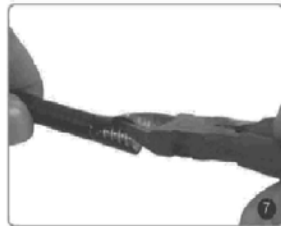
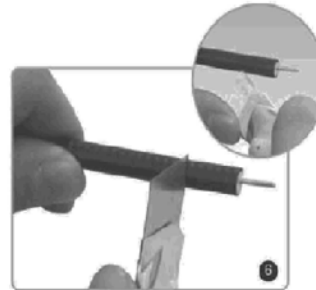
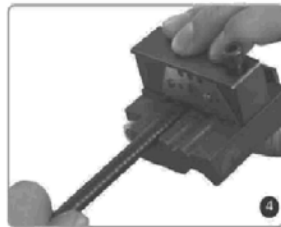
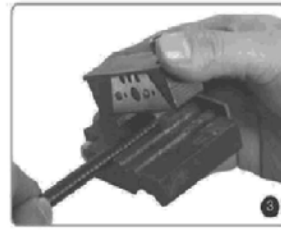




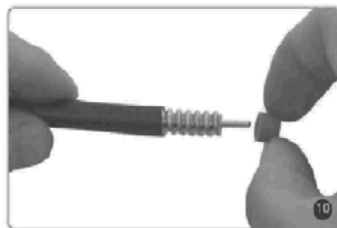
Assembly tools (recommended).



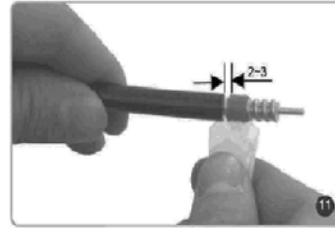
Connector Components.



Chamfer inner conductor 0.5 × 45° with flat file.



Put the screw gasket onto the cable, pay attention to the correct direction of the screw gasket. The angle direction towards the front.



Wipe the gasket with grease.

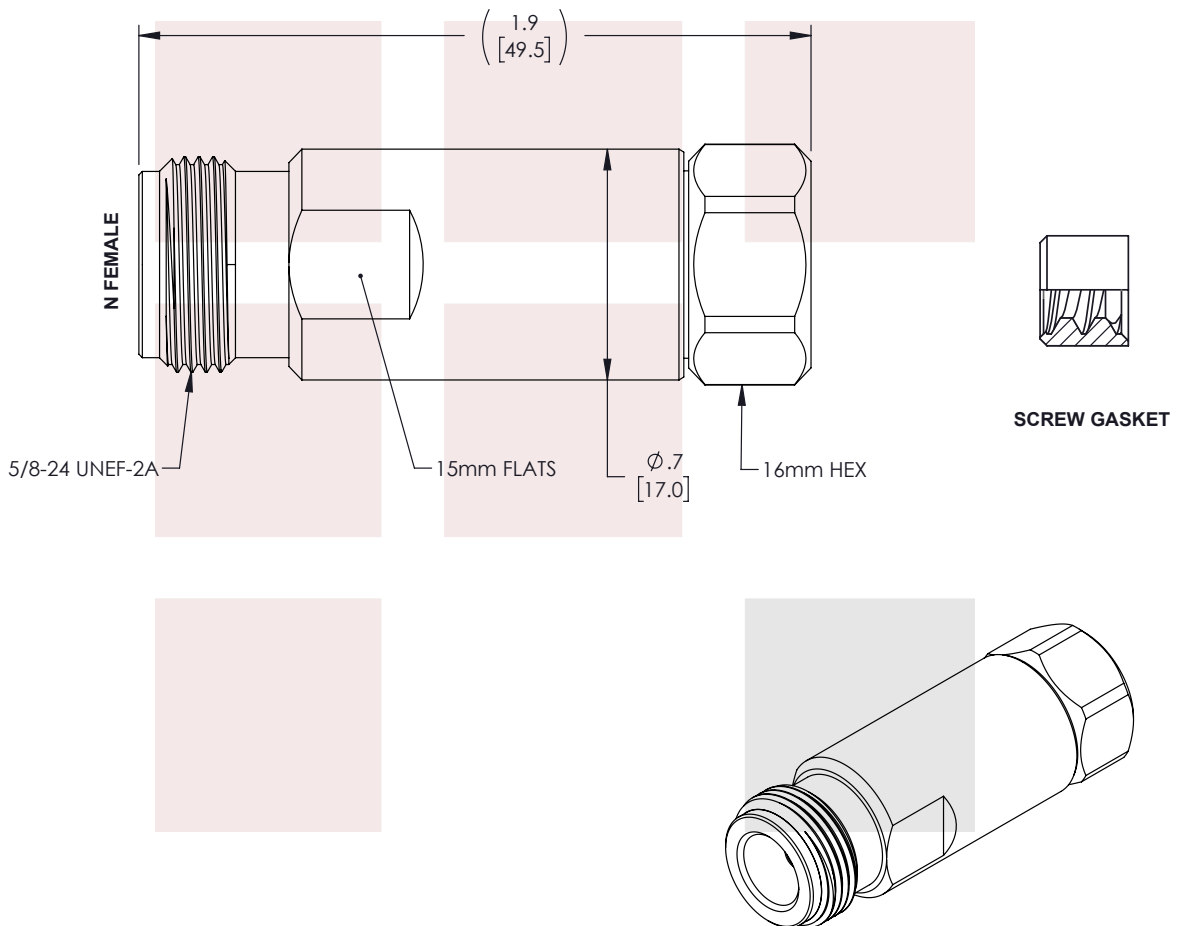
N Female Low PIM Connector Clamp/Non-Solder Contact Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250, IP67 Rated from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [N Female Low PIM Connector Clamp/Non-Solder Contact Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250, IP67 Rated FMCN44727](#)

URL:

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	4/21/2022	AGANWANI



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TITLE

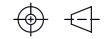
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY PSRINIVAS	ITEM NO. FMCN44727	REV A
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