

## N Male (Plug) Connector Solder/Non-Solder Contact Attachment for RG402 Cable



### FMCN5163

#### Configuration

- N Male Connector
- MIL-STD-348B
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG402

#### Features

- Operating Frequency of 11 GHz Max.
- Excellent VSWR of 1.15:1
- Gold over Nickel over Copper Plated Brass Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Type N Male Standard Connector Solder/Non-Solder Contact Attachment for RG402 Cable, part number FMCN5163, from Fairview Microwave is in-stock and ships same day. This type N male connector operates up to a maximum frequency of 11 GHz and offers excellent VSWR of 1.15:1.

Fairview's type N male connector FMCN5163 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		11	GHz
VSWR			1.15:1	
Insertion Loss			0.165	dB
Operating Voltage (AC)			1,000	Vrms
Dielectric Withstanding Voltage (AC)			2,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	0.98 in [24.89 mm]
Width	0.827 in [21.01 mm]
Height	0.827 in [21.01 mm]
Weight	0.07 lbs [31.75 g]
Mating Cycles	500 Cycles
Mating Torque	6 to 10 in-lbs [[0.68 to 1.13 Nm]]

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**Material Specifications**

Description	Material	Plating
Contact	Brass	Gold over Nickel over Copper
Insulation	Teflon	
Outer Conductor	Brass	Copper-Tin-Zinc Alloy
Body	Brass	Copper-Tin-Zinc Alloy
Retaining Ring	Brass	Copper-Tin-Zinc Alloy
Gasket	Silicone	

**Environmental Specifications**

**Temperature**

Operating Range

-65 to +165 deg C

Humidity

MIL-STD-202, Method 106

Thermal 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**

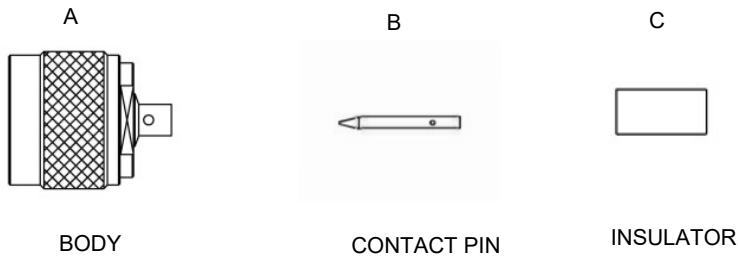
Notes:

N Male (Plug) Connector Solder/Non-Solder  
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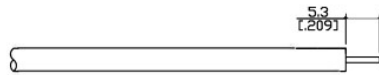


Assembly Instruction

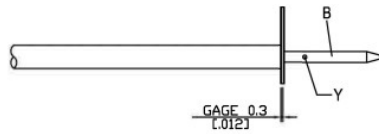


DIAGRAM

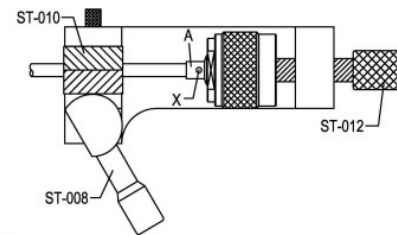
ASSEMBLY INSTRUCTION



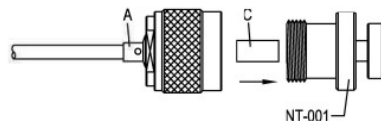
Step 1. STRIP AS SHOWN.



Step 2. PUT 0.3MM GAGE ST-0.3 IN PLACE, INSERT CABLE'S CENTER CONDUCTOR INTO CENTER PIN "B" AND SOLDER IN "Y".



Step 3. INSERT PREPARED CABLE INTO SOLDERING FIXTURE "ST-008". USE INSERT TOOL "ST-010" AND LOCATOR TOOL "ST-012" TO FIX THE CONNECTOR SOLDER IN "X".



Step 4. USE THE DIELECTRIC INSERTION TOOL "NT-001" TO INSERT THE TEFLON "C".

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### **FMCN5163**

N Male (Plug) Connector Solder/Non-Solder Contact Attachment for RG402 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: [N Male \(Plug\) Connector Solder/Non-Solder Contact Attachment for RG402 Cable FMCN5163](https://www.fairviewmicrowave.com/n-male-rg402-connector-fmcn5163-p.aspx)

URL: <https://www.fairviewmicrowave.com/n-male-rg402-connector-fmcn5163-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# FMCN5163 CAD Drawing

N Male (Plug) Connector Solder/Non-Solder Contact Attachment for RG402 Cable

