

SHV Male (Plug) Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 Cable



FMCN5164

Configuration

- SHV Male Connector
- MIL-STD-348B
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG55, RG142, RG223, RG400

Features

- Operating Frequency of 300 MHz Max.
- Gold over Nickel over Copper Plated Phosphor Bronze Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

SHV Male Standard Connector Crimp/Solder Attachment for RG55, RG142, RG223 and RG400 Cable, part number FMCN5164, from Fairview Microwave is in-stock and ships same day. This SHV male connector operates up to a maximum frequency of 300 MHz.

Fairview's SHV male connector FMCN5164 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		300	MHz
Operating Voltage (AC)			3,500	Vrms
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Inner Conductor DC Resistance			2	mOhms
Outer Conductor DC Resistance			1.5	mOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.756 in [44.6 mm]
Width	0.571 in [14.5 mm]
Height	0.571 in [14.5 mm]
Weight	0.04 lbs [18.14 g]
Mating Cycles	500 Cycles
Mating Torque	0.6 to 2.5 in-lbs [[0.07 to 0.28 Nm]]

SHV Male (Plug) Connector Crimp/Solder Attachment
for RG55, RG142, RG223, RG400 Cable



FMCN5164

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Gold over Nickel over Copper
Contact Spring		Copper-Tin-Zinc Alloy
Outer Conductor	Brass	Copper-Tin-Zinc Alloy
Body	Brass	Copper-Tin-Zinc Alloy
Gasket	Silicone	
Crimp Sleeve	Copper	Copper-Tin-Zinc Alloy
Washer	Brass	Copper-Tin-Zinc Alloy

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Humidity

MIL-STD-202, Method 103, Condition B

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

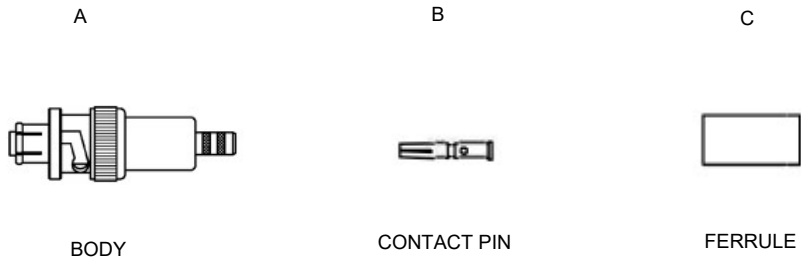
Notes:

SHV Male (Plug) Connector Crimp/Solder Attachment
for RG55, RG142, RG223, RG400 Cable



FMCN5164

Assembly Instruction

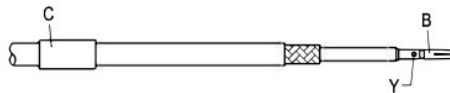


DIAGRAM

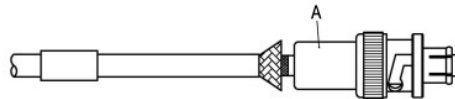


ASSEMBLY INSTRUCTION

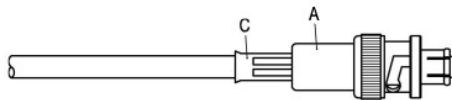
Step 1. STRIP AS SHOWN.



Step 2. SLIDE FERRULE "C" OVER CABLE
Step 3. PUT "B" ON CENTER CONDUCTOR AND
SOLDER OR CRIMP IN "Y"
(USE SQUARE 1.6mm/0.063 inch SECTION
OF INSERT-B IF CRIMPED).



Step 4. LOOSEN BRAIDING AND SLIDE CONNECTOR
"A" IN PLACE.



Step 5. SLIDE FERRULE "C" TOWARDS THE
CONNECTOR "A" AND CRIMP.
(USE 5.5mm/0.217inch HEX SECTION
OF INSERT-B).

SHV Male (Plug) Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 Cable



FMCN5164

SHV Male (Plug) Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 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: [SHV Male \(Plug\) Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 Cable FMCN5164](#)

URL: <https://www.fairviewmicrowave.com/shv-plug-rg55-rg142-rg223-rg400-connector-fmcn5164-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.

FMCN5164 CAD Drawing

SHV Male (Plug) Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 Cable

