

Reverse Polarity SMA Male (Plug) Connector for RG178, RG196 Cable, Crimp/Solder

RP SMA male connector with crimp/solder attachment for RG178 and RG196, part number FMCN1608, from Fairview Microwave is in-stock and ships same day. Our reverse polarity male configuration uses a male connector body with a female inner contact receptacle.

Fairview's RP SMA male connector FMCN1608 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.

Mechanical Specifications

Size	
Length	0.645 in [16.38 mm]
Width/Dia.	0.177 in [4.50 mm]

Material Specifications

Description	Material	Plating
Contact	Copper	Gold
Insulation	PTFE	
Body	Brass	Gold
Coupling Nut	Brass	Gold

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

Plotted and Other Data

Notes:



Configuration:

- SMA Male Reverse Polarity Connector
- Straight Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment
- 5/16 inch Hex

Features:

- Reverse Polarity
- Gold Plated Copper Contact

Applications:

- General Purpose Test
- Custom Cable Assemblies

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Assembly Instruction

Assembly Instructions

STEP 1. MAIN BODY CONTACT PIN BARREL FERRULE
FRONT INSULATOR REAR INSULATOR HEX NUT

STEP 2.

STEP 3. CRIMP

STEP 4. SOLDER

STEP 5.

STEP 6.

STEP 1. All parts of the connector are shown.

STEP 2. Strip the cable inner conductor, dielectric, braid, and jacket as per "RECOMMENDED CABLE STRIPPING DIM'S" in catalog.

STEP 3. Slide the HEX NUT and FERRULE onto cable. Then insert the BARREL into braid and dielectric, and slide the FERRULE over braid and crimp it as shown.

STEP 4. Slide the REAR INSULATOR against the BARREL. Then insert inner conductor into the CONTACT PIN and solder it as shown.

STEP 5. Slide the FRONT INSULATOR against the REAR INSULATOR.

STEP 6. Insert cable and parts into the MAIN BODY, then screw the HEX NUT until it is tight.

Reverse Polarity SMA Male (Plug) Connector for RG178, RG196 Cable, Crimp/Solder 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: [Reverse Polarity SMA Male \(Plug\) Connector for RG178, RG196 Cable, Crimp/Solder FMCN1608](#)

URL: <https://www.fairviewmicrowave.com/sma-male-reverse-polarity-rg178-rg196-connector-fmcn1608-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.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PE45008	4/19/2021	S.ELLIS

RP SMA MALE
 Dimensions: .606 [15.40], .331 [8.40]
 Threads: 1/4-36 UNS-2A, 5/16 HEX TYP

INSULATOR
 Dimensions: .362 [9.20], ϕ .181 [4.60]

CONTACT
 Dimensions: .362 [9.20], ϕ .024 [0.60], ϕ .056 [1.43]

SPACER
 Dimensions: ϕ .024 [0.60], ϕ .106 [2.70], .024 [0.60]

BARREL
 Dimensions: ϕ .106 [2.70], .406 [10.30], ϕ .213 [5.40]

HEX NUT
 Dimensions: .205 [5.20], ϕ .177 [4.50], ϕ .067 [1.70], ϕ .039 [1.00]

FERRULE
 Dimensions: .217 [5.50], ϕ .150 [3.80], ϕ .094 [2.40]

HEAT SHRINK TUBE
 Dimensions: .500 [12.70], .142 [3.60]

STRIPPING DIMENSIONS
 Dimensions: .524 [13.30], .339 [8.60], .118 [3.00]

NOTES:

- CABLE ATTACHMENT:**
 - OUTER: CRIMP.
 - INNER: SOLDER.
- CRIMP SIZE REQUIRED:**
 - FERRULE: .128 [3.25] HEX. CRIMP TOOL.
 - CONTACT: SOLDER.

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<p>Fairview Microwave an INFINIT[®] brand</p> <p>TITLE</p> <p>Reverse Polarity SMA Male (Plug) Connector for RG178, RG196 Cable, Crimp/Solder</p>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.
	TOLERANCES: CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	SHEET 1 OF 1 SCALE N/A
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG
ITEM NO. FMCN1608		REV A

T-Rev.D