

SMA Male to MMCX Male Cable RG-316 Coax

The SMA male to MMCX male cable using RG-316 coax, part number SCA16316, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to MMCX cable assembly has a male to male gender configuration with 50 ohm flexible RG-316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The SCA16316 SMA male to MMCX male cable assembly operates to 3 GHz. The SMA male to MMCX male cable using RG-316 coax, part number SCA16316, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to MMCX cable assembly has a male to male gender configuration with 50 ohm flexible RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The SCA16316 SMA male to MMCX male cable assembly operates to 3 GHz.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

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Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------------------|-----|---------------|-------|--------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.2:1 | |
| Velocity of Propagation | | 69 | | % |
| Group Delay | | 1.5 [4.92] | | ns/ft [ns/m] |
| Capacitance | | 29.57 [97.01] | | pF/ft [pF/m] |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|----|----|-------|
| Frequency | 0.1 | 1 | 3 | | | GHz |
| Insertion Loss (Typ.) | 0.08 | 0.29 | 0.54 | | | dB/ft |
| | 0.26 | 0.95 | 1.77 | | | dB/m |

Electrical Specification Notes:

Shielding effectiveness > 38 dB (up to 1 GHz).

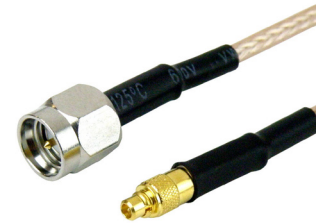
Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as 0.05 x sqrt(fGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]



Configuration:

- SMA Male
- MMCX Male
- RG-316

Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket
- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use
- General Purpose
- Laboratory Use

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Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG-316 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.1 in [2.54 mm] |
| One Time Minimum Bend Radius | 0.6 in [15.24 mm] |
| Repeated Minimum Bend Radius | 1.48 in [37.59 mm] |

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|----------------------|-------------|
| Type | SMA Male | MMCX Male |
| Configuration | Straight | Straight |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Gold | Brass, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Ternary Alloy | Brass, Gold |
| Coupling Nut Material & Plating | Brass, Ternary Alloy | |
| Hex Size | 5/16 inch | |
| Torque | 5 in-lbs 0.57 Nm | |

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

SCA16316 - xx uu

 cm = Centimeters
 <blank> = Inches
 Length

 Example: SCA16316-12 = 12 inches long cable
 SCA16316-100cm = 100 cm long cable

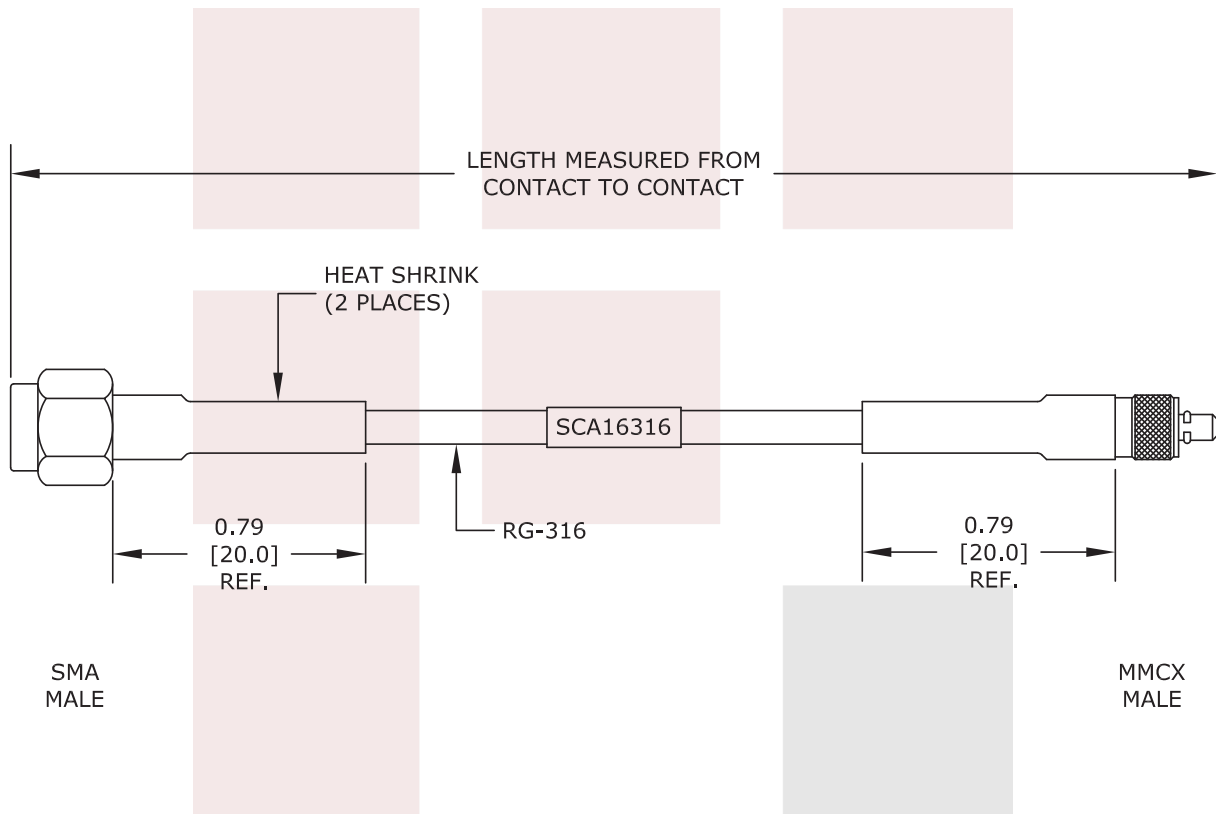
SMA Male to MMCX Male Cable RG-316 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Male to MMCX Male Cable RG-316 Coax SCA16316](#)

URL: <https://www.fairviewmicrowave.com/sma-male-mmcx-male-cable-rg-316ds-coax-sca16316-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 | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | | | |
|---|--------|---|-------|--------------------|--------------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | 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]. | | | |
| TITLE SMA Male to MMCX Male Cable RG-316 Coax | | DWG NO SCA16316 | | CAGE CODE 3FKR5 | |
| CAD FILE | 101716 | SHEET | SCALE | N/A | SIZE A 41742 |