

FMC1018315 DATA SHEET

10-32 Male to SMC Plug Cable RG-316 Coax

The 10-32 male to SMC plug cable using RG-316 coax, part number FMC1018315, from Fairview Microwave is in-stock and ships same day. This Fairview 10-32 to SMC cable assembly has a male to plug 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 FMC1018315 10-32 male to SMC plug cable assembly operates to 2 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.

Electrical Specifications

| Description | | Min | Т | ур | Max | Uı | nits |
|---------------------------|--------------|-----|-------|---------|-------|--------|-----------|
| Frequency Range | | DC | | | 2 | C | SHz |
| VSWR | | | | | 1.5:1 | | |
| Velocity of Propagation | | | - | 70 | | (| % |
| Capacitance | | | 32 [1 | 04.99] | | pF/ft | [pF/m] |
| DC Resistance Inner Cor | nductor | | 8.41 | [27.59] | | Ω/1000 | ft [Ω/Km] |
| Operating Voltage (AC) | | | | | 1,200 | Vr | ms |
| Dielectric Withstanding \ | /oltage (AC) | | | | 2,000 | Vr | ms |
| Jacket Spark | | | | | 2,000 | Vr | ms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|------|------|-------|------|-------|
| Frequency | 0.05 | 0.1 | 0.25 | 0.5 | 2 | GHz |
| Insertion Loss (Typ.) | 0.075 | 0.11 | 0.16 | 0.283 | 0.48 | dB |
| | 0.25 | 0.36 | 0.52 | 0.93 | 1.57 | |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]
Weight 0.015 lbs [6.8 g]

Cable

Cable Type RG-316
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTFE
Number of Shields 1



Configuration:

- 10-32 Male
- SMC Plug
- RG-316

Features:

- Max Frequency 2 GHz
- 70% Phase Velocity
- FEP Jacket

Applications:

- General Purpose
- · Laboratory Use

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Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter Silver Plated Copper Tape Silver Plated Copper Braid FEP, Black 0.098 in [2.49 mm]

Connectors

| Description | Connector 1 | Connector 2 | | |
|----------------------------|---------------|------------------------|--|--|
| Туре | 10-32 Male | SMC Plug | | |
| Impedance | 50 Ohms | 50 Ohms | | |
| Contact Material & Plating | Brass, Gold | Beryllium Copper, Gold | | |
| Contact Plating Spec. | MIL-G-45204 | 50μ in. minimum | | |
| Dielectric Type | Teflon | Teflon | | |
| Body Material & Plating | Brass, Nickel | Brass, Gold | | |
| Body Plating Spec. | | 3μ in. minimum | | |
| Hex Size | | 1/4 inch | | |
| | | | | |

Environmental Specifications

Temperature

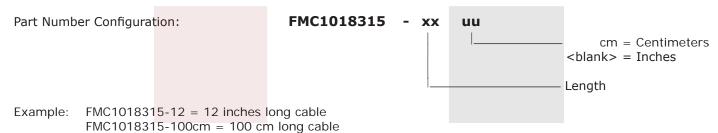
Operating Range -55 to +200 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order



10-32 Male to SMC Plug 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: 10-32 Male to SMC Plug Cable RG-316 Coax FMC1018315

URL: https://www.fairviewmicrowave.com/10-32-male-to-smc-plug-cable-rg-316-coax-fmc1018315-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.

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