

FMCA2398-12 DATA SHEET

Test Probe SMA Male to Trimmed Lead Cable FM-SR086TB Coax in 12 Inch

The 50 ohm SMA Male to pre-trimmed lead cable using FM-SR086TB coax, part number FMCA2398-12, from Fairview Microwave is in-stock and ships same day. Fairview Microwave's formable cable assemblies provide a convenient alternative to their semi-rigid versions, as they offer similar electrical performance but can be bent to desired shape without the use of special tools.

Fairview's hand formable test probes are convenient ready-to-use probes designed for use in testing microwave circuits. These probes are constructed of high quality hand formable coax and a SMA Male connector. The assemblies come in multiple cable diameters to help when attaching two very fine traces or into tight spaces. There are two versions including straight-cut probe ends for those that would like to customize the dimensions of the center conductor and dielectric dimensions as well as pre-stripped probe ends that are ready for immediate use. Each assembly has been RF tested to ensure VSWR specifications of the assembly are met prior to trimming. Each assembly comes in special packaging to protect the coax and pre-trimmed probe ends.

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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

| Description | | Min | Тур | Max | Units |
|-------------------------|---------|-----|---------------|-------|----------------------------------|
| Frequency Range | | DC | | 18 | GHz |
| VSWR | | | | 1.4:1 | |
| Velocity of Propagation | | | 69.5 | | % |
| Capacitance | | | 29 [95.14] | | pF/ft [pF/m] |
| DC Resistance Inner Cor | ductor | | 65.7 [215.55] | | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Cor | nductor | | 10.2 [33.46] | | $\Omega/1000$ ft [$\Omega/$ Km] |

Mechanical Specifications

Cable Assembly

Length* 12 in [304.8 mm]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

Outer Conductor Material and Plating

Repeated Minimum Bend Radius

FM-SR086TB 50 Ohms Solid

Copper Clad Steel, Silver

PTFE 1

Copper, Tin

0.78 in [19.81 mm]



Configuration:

- SMA Male
- Trimmed Lead
- FM-SR086TB

Features:

- Max Frequency 18 GHz
- 69.5% Phase Velocity
- 100% RF Tested prior to final trim
- 1.4 Max VSWR to 18 GHz
- 100% High Pot Tested to 500V
- 0.085 Diameter Formable coax
- Individually packed in protective tube

Applications:

- General Purpose
- Test & Measurement
- Laboratory Use
- RF Test Lead for Measurements up to 18 GHz/Testing of Individual Function or Subsection of an RF Circuit Board
- Inject Signals for Test and Verification

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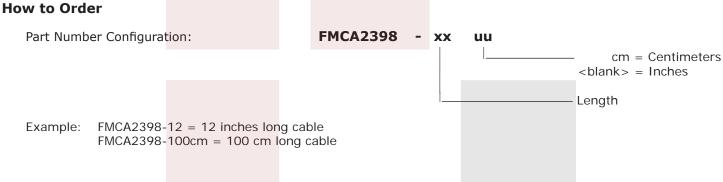
Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------|-----------------------|--------------|
| Туре | SMA Male | Trimmed Lead |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | |
| Mating Cycles | 500 | |
| Contact Material & Plating | Brass, Gold | |
| Contact Plating Spec. | 50 µin minimum | |
| Dielectric Type | PTFE | |
| Body Material & Plating | Stainless Steel, Gold | |
| Body Plating Spec. | 10 µin minimum | |
| Coupling Nut Material & Pla | nting Brass, Nickel | |
| Coupling Nut Plating Spec. | 100 µin minimum | |
| Hex Size | 5/16 inch | |
| Torque | 3 in-lbs 0.34 Nm | |
| | | |

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Test Probe SMA Male to Trimmed Lead Cable FM-SR086TB Coax in 12 Inch 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: Test Probe SMA Male to Trimmed Lead Cable FM-SR086TB Coax in 12 Inch FMCA2398-12

URL: https://www.fairviewmicrowave.com/test-probe-sma-male-trimmed-lead-lead-cable-fm-sr086tb-coax-fmca2398-12-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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