

Precision SMA Male to SMA Male Phase Stable Cable .90 Coax in 24 Inch with LF Solder

The SMA male to SMA male 24 inch cable using .90 coax, part number FMTC301-24, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible FM-151TC coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMTC301-24 SMA male to SMA male cable assembly operates to 18 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB. Fairview's Phase Stable Test Cables allow customers to make accurate repeatable measurements due to the cable's phase and amplitude stability when flexed. The FM-151TC cable has a max phase deviation of +/- 5 degrees at 18 GHz, reducing any measurement error introduced by the test cables during product evaluation. The FM-151TC test cables use a solid PTFE dielectric core to help prevent any change in diameter under flexure, resulting in good insertion loss and low VSWR. These cables are designed to exceed 5,000 mating cycles when handled with proper care. The FM-151TC cables have greater flexibility and allow for a tighter connector spacing due to their 0.38 inch diameter. This series of cables is an excellent choice for the laboratory or production environment when a more precise measurement is needed, especially when there is movement involved in the testing cycle.

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	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.3:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Phase Stability with Flexure		±5		Degrees

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	6	12	18			GHz
Insertion Loss (Max.)	1.09	1.61	2.04			dB
Power Handling (Max.)	55	29	20			W

Mechanical Specifications

Cable Assembly

Length*	24 in [609.6 mm]
Weight	0.1455 lbs [66 g]



Configuration:

- SMA Male
- SMA Male
- FM-151TC

Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Triple Shielded
- Polyurethane Jacket
- Phase and amplitude stable when flexed
- Lighter weight, more flexible
- Phase change with flexure +/-5° to 18 GHz
- Flexible and durable cable with a minimum bend radius of 0.75 inches
- Low VSWR and insertion loss
- Strong connector coax interface with heavy duty booting
- Test data provided with every cable assembly
- Cable provides extended life up to 5,000 mating cycles with proper care
- All in-stock and available to ship same day

Applications:

- General Purpose
- Laboratory Use
- RF test stations
- Bench-top lab testing
- Antenna testing
- Automated testing using multiple ports

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Cable

Cable Type	FM-151TC
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Tape
Shield Layer 3	Silver Plated Copper Braid
Jacket Material	Polyurethane
Jacket Diameter	0.151 in [3.84 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications
Temperature

Operating Range -65 to +125 deg C

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMTC301 - xx uu

cm = Centimeters

<blank> = Inches

Length

Example: FMTC301-12 = 12 inches long cable
 FMTC301-100cm = 100 cm long cable

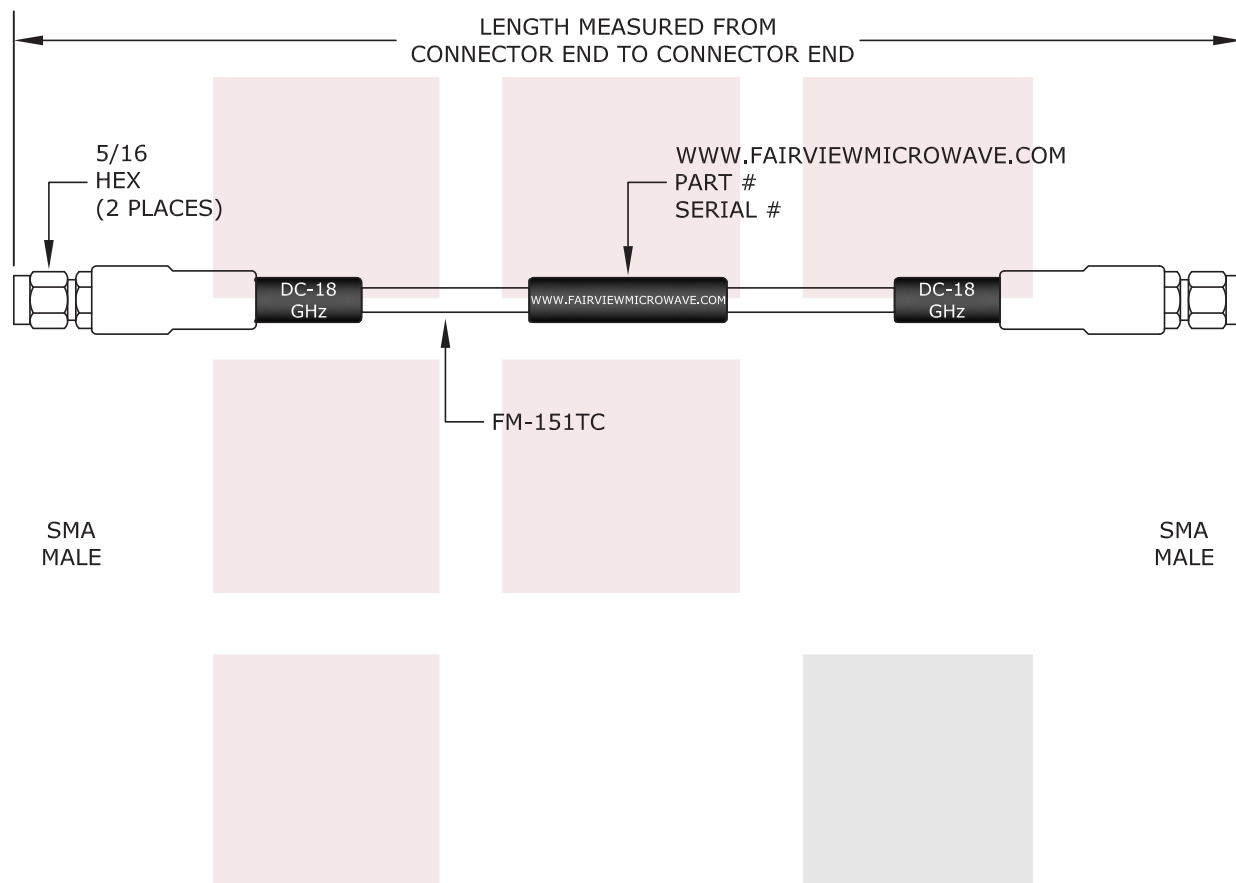
Precision SMA Male to SMA Male Phase Stable Cable .90 Coax in 24 Inch with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Precision SMA Male to SMA Male Phase Stable Cable .90 Coax in 24 Inch with LF Solder FMTC301-24](https://www.fairviewmicrowave.com/precision-sma-male-sma-male-cable-.90-coax-fmtc301-24-p.aspx)

URL: <https://www.fairviewmicrowave.com/precision-sma-male-sma-male-cable-.90-coax-fmtc301-24-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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TITLE Precision SMA Male to SMA Male Phase Stable Cable .90 Coax in 24 Inch with LF Solder	DWG NO FMTC301		CAGE CODE 3FKR5		
	CAD FILE 072015	SHEET	SCALE N/A	SIZE A	2233