

Broadband Quick Lock N Male to Quick Lock N Male Cable FM-SF200LL Coax

The type N male quick lock to type N male quick lock cable using FM-SF200LL coax, part number FMTC503, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible FM-SF200LL coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMTC503 type N male to type N male cable assembly operates to 6 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB. Fairview Microwave's test cables are constructed using our FM-SF200LL coax which is optimized for use up to 6 GHz with Type-N connectors. This flexible coaxial cable has excellent electrical properties including low insertion loss and >90 dB of shielding effectivity. The highly flexible cable also reduces the strain applied to your test components, making it easier to route the cables in your test setup or equipment rack. The quick-connect, quick-lock Type-N connectors have reduced threads making it easier to mate and de-mate the connectors while still providing a secure threaded connection. These 6 GHz test cables are available with Male and Female N-Type connectors and are available standard lengths from stock for same day shipment.

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		6	GHz
VSWR			1.35:1	
Insertion Loss			0.95 3.12	
Velocity of Propagation		76		%
RF Shielding	90			dB
Group Delay		1.34 [4.4]		ns/ft [ns/m]
Capacitance		26.7 [87.6]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			500	Vrms
Input Power (Peak)			3	KWatts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Max.)	0.2	0.28	0.38	0.59	0.95	dB/ft
	0.66	0.92	1.25	1.94	3.12	dB/m
Power Handling (Max.)	300	230	150	90	40	W

Electrical Specification Notes:



Configuration:

- Quick LockN Male
- Quick LockN Male
- FM-SF200LL

Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- PVC Jacket
- Quick-connect, quick-lock connector design
- VSWR of 1.35:1 to 6 GHz
- 76% velocity of propagation (VoP)
- 100% VSWR tested and Hi-Pot tested to 500 volts
- Very flexible and durable
- Enhanced strain relief, heavy duty booting
- In-stock and same day shipment
- Broadband performance

Applications:

- General Purpose
- Laboratory Use
- Production testing
- RF development testing
- General lab testing
- Test rack applications

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Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable Type FM-SF200LL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Bare
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper
 Jacket Material PVC
 Jacket Diameter 0.185 in [4.7 mm]
 One Time Minimum Bend Radius 0.5 in [12.7 mm]

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Connection Method	Quick Lock	Quick Lock
Contact Material & Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material & Plating	Brass, Nickel	Brass, Nickel

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

Plotted and Other Data

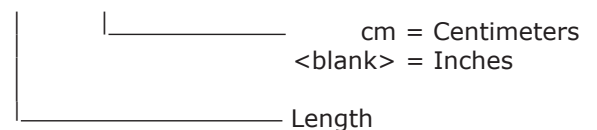
Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMTC503 - xx uu



Example: FMTC503-12 = 12 inches long cable
 FMTC503-100cm = 100 cm long cable

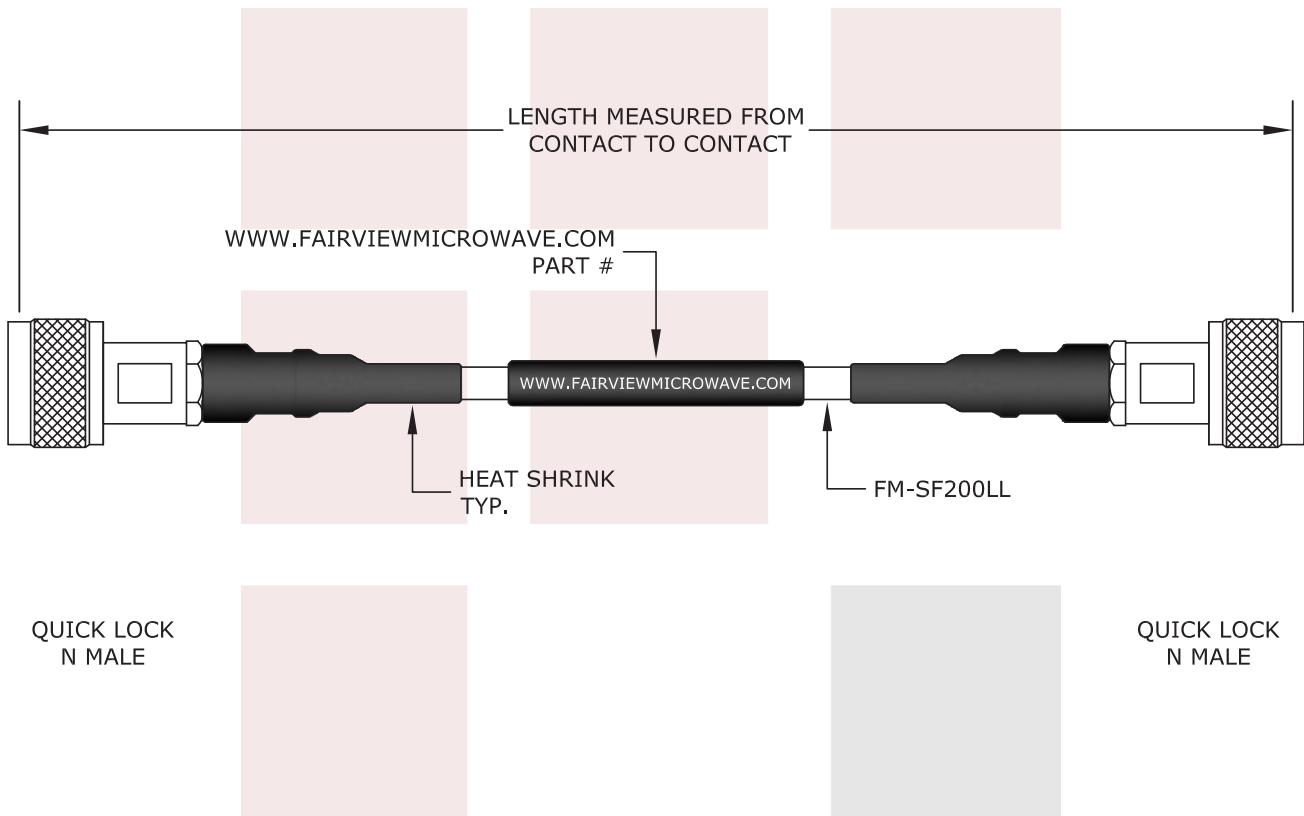
Broadband Quick Lock N Male to Quick Lock N Male Cable FM-SF200LL Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Broadband Quick Lock N Male to Quick Lock N Male Cable FM-SF200LL Coax FMTC503](#)

URL: <https://www.fairviewmicrowave.com/broadband-n-male-n-male-cable-fm-sf200ll-coax-fmtc503-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 Broadband Quick Lock N Male to Quick Lock N Male Cable FM-SF200LL Coax		DWG NO FMTC503		CAGE CODE 3FKR5	
CAD FILE	022516	SHEET	SCALE	N/A	SIZE A 2233