

## Broadband BNC Male to BNC Male Cable FM-SF200LL Coax

The BNC male to BNC male cable using FM-SF200LL coax, part number FMTC501, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC 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 FMTC501 BNC male to BNC male cable assembly operates to 3 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 3 GHz with BNC 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. These 3 GHz test cables are available with Male and Female BNC 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		3	GHz
VSWR			1.35:1	
Insertion Loss			0.66 2.17	
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	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.12 0.39	0.19 0.62	0.27 0.89	0.38 1.25	0.66 2.17	dB/ft dB/m
Power Handling (Max.)	450	300	200	150	80	W

Electrical Specification Notes:  
 Values at 25°C, sea level.



### Configuration:

- BNC Male
- BNC Male
- FM-SF200LL

### Features:

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- PVC Jacket
- Durable BNC Male and BNC Female options
- VSWR of 1.35:1 to 3 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

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**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	BNC Male	BNC Male
Impedance	50 Ohms	50 Ohms
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:

**FMTC501 - xx uu**

 cm = Centimeters  
 <blank> = Inches  
 Length

 Example: FMTC501-12 = 12 inches long cable  
 FMTC501-100cm = 100 cm long cable

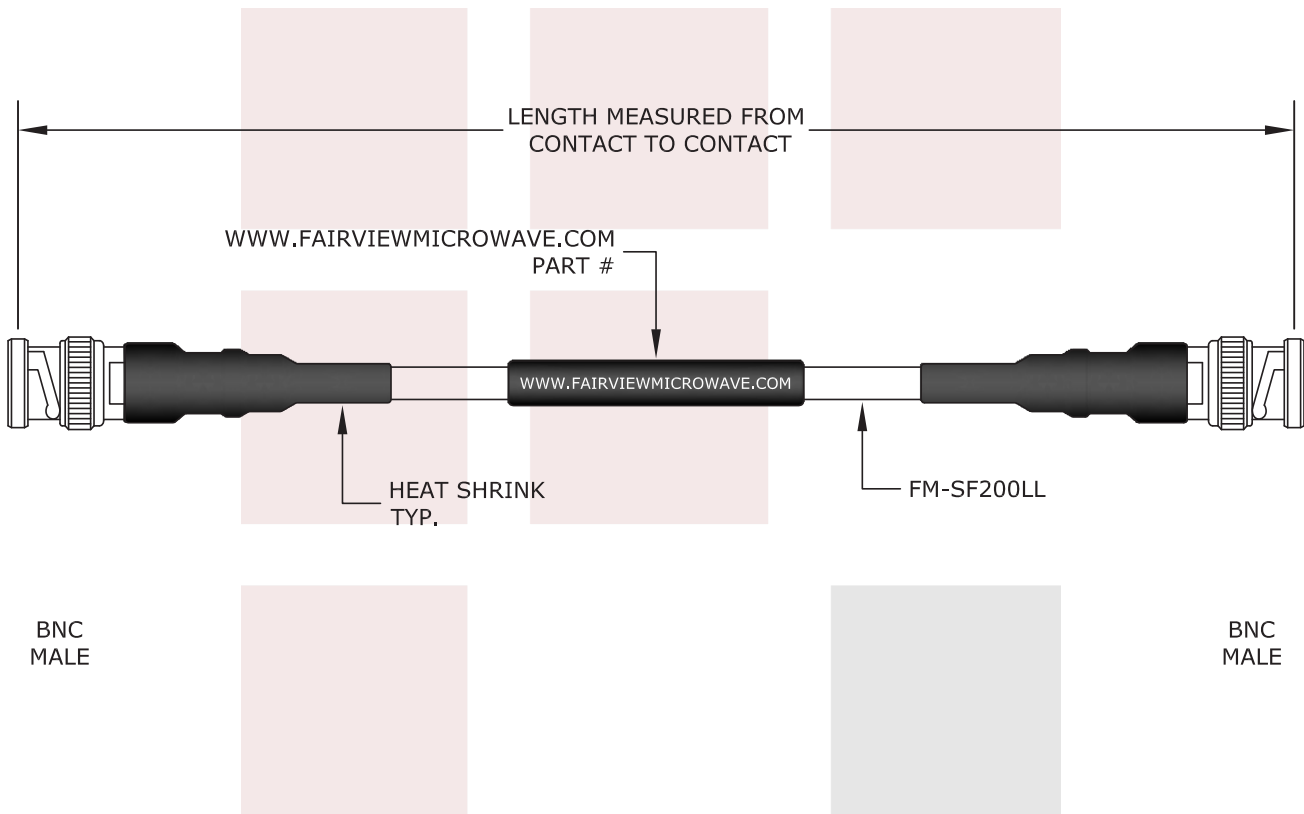
Broadband BNC Male to BNC Male Cable FM-SF200LL Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Broadband BNC Male to BNC Male Cable FM-SF200LL Coax FMTC501](#)

URL: <https://www.fairviewmicrowave.com/broadband-bnc-male-bnc-male-cable-fm-sf200ll-coax-fmtc501-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.





<b>FAIRVIEW MICROWAVE INC.</b> 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 Broadband BNC Male to BNC Male Cable FM-SF200LL Coax		DWG NO FMTC501		CAGE CODE 3FKR5	
CAD FILE	022516	SHEET	SCALE	N/A	SIZE A 2233