

## Low Loss N Male to RP TNC Male Cable LMR-400 Coax in 50 CM

The type N male to RP TNC male 50 cm cable using LMR-400 coax, part number FMCA2380-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to reverse polarity TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2380-50CM type N male to reverse polarity TNC male cable assembly operates to 5.8 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		$\Omega/1000ft$ [ $\Omega/Km$ ]
DC Resistance Outer Conductor		1.65 [5.41]		$\Omega/1000ft$ [ $\Omega/Km$ ]
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Input Power (Peak)			16	KWatts

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.24	0.25	0.27	0.32	0.38	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1dB per connector loss.

### Mechanical Specifications

#### Cable Assembly

Length\* 19.68 in [499.87 mm]  
 Diameter 0.8 in [20.32 mm]



### Configuration:

- N Male
- TNC Male Reverse Polarity
- LMR-400

### Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

### Applications:

- General Purpose
- Laboratory Use

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**Cable**

Cable Type	LMR-400
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.405 in [10.29 mm]

One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

**Connectors**

Description	Connector 1	Connector 2
Type	N Male	TNC Male
Polarity		Reverse Polarity
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Phosphor Bronze, Gold
Contact Plating Spec.	50 μ in. minimum	
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Spec.	150 μ in. minimum	
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Nickel
Coupling Nut Plating Spec.	150 μ in. minimum	
Hex Size	13/16 inch	

**Environmental Specifications**

**Temperature**

Operating Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

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

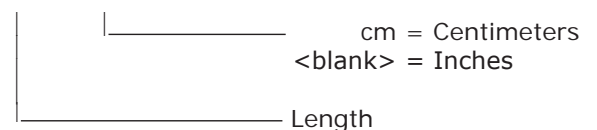
**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2380 - xx uu**



Example: FMCA2380-12 = 12 inches long cable  
FMCA2380-100cm = 100 cm long cable

Low Loss N Male to RP TNC Male Cable LMR-400 Coax in 50 CM 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: [Low Loss N Male to RP TNC Male Cable LMR-400 Coax in 50 CM FMCA2380-50CM](https://www.fairviewmicrowave.com/low-loss-n-male-tnc-male-cable-lmr400-coax-fmca2380-50cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-tnc-male-cable-lmr400-coax-fmca2380-50cm-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.



