

Low Loss N Male to RP TNC Male Cable LMR-400 Coax in 12 Inch

The type N male to RP TNC male 12 inch cable using LMR-400 coax, part number FMCA2380-12, 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 FMCA2380-12 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]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω /1000ft [Ω /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.)	0.22	0.23	0.24	0.27	0.31	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*	12 in [304.8 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

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
sales@fairviewmicrowave.com

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

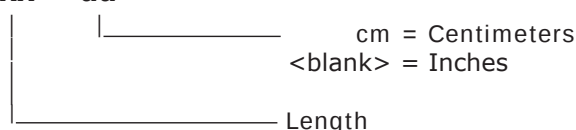
Compliance Certifications (see [product page](#) for current document)

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 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: [Low Loss N Male to RP TNC Male Cable LMR-400 Coax in 12 Inch FMCA2380-12](https://www.fairviewmicrowave.com/low-loss-n-male-tnc-male-cable-lmr400-coax-fmca2380-12-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-tnc-male-cable-lmr400-coax-fmca2380-12-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.



REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
A	INITIAL RELEASE	4/16/2021	S.ELLIS	

2X
HEAT SHRINK BOOT

LENGTH MEASURED FROM
CONTACT TO CONTACT

CONTACT

CONTACT

N MALE

RP
TNC MALE

LMR-400

WWW.FAIRVIEWMICROWAVE.COM
FMCA2380

NOTES:

- CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

Fairview Microwave an INFINITE brand TITLE Low Loss N Male to RP TNC Male Cable LMR-400 Coax in 12 Inch		UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS <table style="width: 100%; font-size: x-small;"> <tr> <th colspan="2">TOLERANCES:</th> <th colspan="2">CABLE LENGTH (L) TOLERANCES:</th> </tr> <tr> <td style="vertical-align: top;"> $X = \pm 2$ [5.08] $.XX = \pm .02$ [.51] $.XXX = \pm .005$ [.13] </td> <td style="vertical-align: top;"> FRACTIONS $\pm 1/32$ ANGLES $\pm 1^\circ$ </td> <td style="vertical-align: top;"> $L \leq 12$ [305] = ± 1 [25] / -0 12 [305] < $L \leq 60$ [1524] = ± 2 [51] / -0 60 [1524] < $L \leq 120$ [3048] = ± 4 [102] / -0 120 [3048] < $L \leq 300$ [7620] = ± 6 [152] / -0 300 [7620] < $L = +5\%L$ / -0 </td> <td></td> </tr> </table> ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. <table style="width: 100%; font-size: x-small;"> <tr> <td>SIZE A</td> <td>CAGE CODE 3FKR5</td> <td>DRAWN BY K.DANG</td> <td>ITEM NO. FMCA2380</td> <td>REV A</td> </tr> </table>		TOLERANCES:		CABLE LENGTH (L) TOLERANCES:		$X = \pm 2$ [5.08] $.XX = \pm .02$ [.51] $.XXX = \pm .005$ [.13]	FRACTIONS $\pm 1/32$ ANGLES $\pm 1^\circ$	$L \leq 12$ [305] = ± 1 [25] / -0 12 [305] < $L \leq 60$ [1524] = ± 2 [51] / -0 60 [1524] < $L \leq 120$ [3048] = ± 4 [102] / -0 120 [3048] < $L \leq 300$ [7620] = ± 6 [152] / -0 300 [7620] < $L = +5\%L$ / -0		SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMCA2380	REV A
TOLERANCES:		CABLE LENGTH (L) TOLERANCES:														
$X = \pm 2$ [5.08] $.XX = \pm .02$ [.51] $.XXX = \pm .005$ [.13]	FRACTIONS $\pm 1/32$ ANGLES $\pm 1^\circ$	$L \leq 12$ [305] = ± 1 [25] / -0 12 [305] < $L \leq 60$ [1524] = ± 2 [51] / -0 60 [1524] < $L \leq 120$ [3048] = ± 4 [102] / -0 120 [3048] < $L \leq 300$ [7620] = ± 6 [152] / -0 300 [7620] < $L = +5\%L$ / -0														
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMCA2380	REV A												

THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET **1** OF **1**

SCALE **N/A**