



FMCA100254

Configuration

· Connector 1: N Male

· Connector 2: TNC Male Right Angle

Cable Type: LMR-400-UFCoax Flex Type: Flexible

Features

- · Max Frequency 8 GHz
- · Shielding Effectivity > 90 dB
- · 85% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

General Purpose

· Laboratory Use

Description

The type N male to RA TNC male cable using LMR-400-UF coax, part number FMCA100254, from Fairview Microwave is in-stock and ships same day. This Fairview type N to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100254 type N male to TNC male cable assembly operates to 8 GHz. The right angle TNC interface on the LMR-400-UF cable allows for easier connections in tight spaces. 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

Minimum	Typical	Maximum	Units
DC		8	GHz
		1.4:1	
	85		%
90			dB
	1.2 [3.94]		ns/ft [ns/m]
	23.9 [78.41]		pF/ft [pF/m]
	0.06 [0.2]		uH/ft [uH/m]
	1.07 [3.51]		Ohms/1000ft [Ohms/Km]
	1.65 [5.41]		Ohms/1000ft [Ohms/Km]
	DC	DC 85 90 1.2 [3.94] 23.9 [78.41] 0.06 [0.2] 1.07 [3.51]	DC 8 1.4:1 85 90 1.2 [3.94] 23.9 [78.41] 0.06 [0.2] 1.07 [3.51]





FMCA100254

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2000	4000	8000	MHz	
FMCA100254	Custom Lengths	Insertion Loss (Typ.)	0.035	0.05	0.072	0.094	0.13	dB/ft	
1 WCA100234	Available		0.12	0.17	0.24	0.31	0.43	dB/m	
FMCA100254-12	12 inch	Insertion Loss (Typ.)	0.39	0.4	0.43	0.45	0.48	dB	0.272
FMCA100254-24	24 inch	Insertion Loss (Typ.)	0.42	0.45	0.5	0.54	0.61	dB	0.359
FMCA100254-36	36 inch	Insertion Loss (Typ.)	0.46	0.5	0.57	0.64	0.74	dB	0.446
FMCA100254-60	60 inch	Insertion Loss (Typ.)	0.53	0.6	0.71	0.82	1	dB	0.62
FMCA100254-300	300 inch	Insertion Loss (Typ.)	1.23	1.6	2.15	2.7	3.6	dB	2.36

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB Loss due to Connector 2: 0.25 dB Base Weight: 0.272 pounds Additional Weight per Inch: 0.00725 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm] Weight 0.272 lbs [123.38 g]

Cable

Cable Type LMR-400-UF Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper

Dielectric Type PE(F) Number of Shields

Shield Layer 1 Aluminum Tape Shield Layer 2 **Tinned Copper Braid** Jacket Material TPE, Black

0.405 in [10.29 mm] Jacket Diameter One Time Minimum Bend Radius 1 in [25.4 mm] Repeated Minimum Bend Radius 4 in [101.6 mm]

0.38 lbs-ft [0.52 N-m] Bending Moment Flat Plate Crush 20 lbs/in [0.36 Kg/mm] Tensile Strength 160 lbs [72.57 Kg]





FMCA100254

Connectors

Description	Connector 1	Connector 2
Туре	N Male	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	15 µin minimum	50 μin
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-metal
Body Plating Specification		80 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		80 μin
Hex Size	18 mm	15.8 mm
Torque		15 in-lbs 1.7 Nm
Seal Gasket Material		Silicone

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

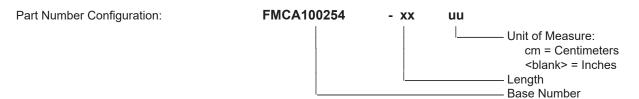




FMCA100254

Typical Performance Data

How to Order



Example: FMCA100254-12 = 12 inches long cable

FMCA100254-100cm = 100 cm long cable

Low Loss N Male to RA TNC Male Cable LMR-400-UF Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low Loss N Male to RA TNC Male Cable LMR-400-UF Coax FMCA100254

URL: https://www.fairviewmicrowave.com/low-loss-n-male-to-ra-tnc-male-cable-lmr-400-uf-coax-fmca100254-p.aspx

The information contained within 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 impliment 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 liability arising out of the use of any part or document.

