

Low Loss TNC Male to RA TNC Male Weatherproof Cable LMR-400 Coax with Times Microwave Components



FMCA100307/WP

Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-400
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket
- Silicone Connector Boot
- IP68 Rated

Applications

- General Purpose
- Laboratory Use

Description

The Fairview Microwave FMCA100307/WP is a weatherproof low loss cable assembly that comes with TNC male connection with weatherproof boot on one end and TNC male with weatherproof boot on the other. Fairview Microwave's RF coaxial cable assembly products are designed for typical use, production, laboratory test and measurement, defense/military, aerial antenna towers, etc. The low loss cable has a 50 Ohm impedance and is specifically ready for quicker shipment than most in the industry can provide.

This weatherproof low loss RF cable assembly operates at a maximum frequency of 6 GHz. Our RF cable assembly has a PE jacket with 0.405 inches diameter. The TNC male to TNC male cable assembly FMCA100307/WP is built with LMR-400 coax, which has a flexible design. This RF cable assembly with 0.5 inches diameter has copper clad aluminum as cable's inner conducting material and PE (F) dielectric type. The weatherproof boot low loss cable can operate at a temperature range of -40 to 85 degrees C. Additional dimensions, specifications, and CAD drawings for this FMCA100307/WP low loss RF cable are available on our downloadable PDF datasheet.

Fairview Microwave stocks a wide selection of weatherproof low loss cable assemblies that ship the same business day as ordered from our warehouse. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal TNC male to TNC male cable assembly as per your requirements.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]

Low Loss TNC Male to RA TNC Male Weatherproof Cable LMR-400 Coax with Times Microwave Components



FMCA100307/WP

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
DC Resistance Inner Conductor		1.39 [4.56]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
FMCA100307/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.028	0.041	0.068	0.108	dB/ft	
			0.07	0.1	0.14	0.23	0.36	dB/m	
FMCA100307/WP-12	12 Inch	Insertion Loss (Typ.)	0.32	0.33	0.35	0.37	0.41	dB	0.768
FMCA100307/WP-24	24 Inch	Insertion Loss (Typ.)	0.34	0.36	0.39	0.44	0.52	dB	0.835
FMCA100307/WP-36	36 Inch	Insertion Loss (Typ.)	0.36	0.39	0.43	0.51	0.63	dB	0.902
FMCA100307/WP-48	48 Inch	Insertion Loss (Typ.)	0.38	0.42	0.47	0.58	0.74	dB	0.969
FMCA100307/WP-60	60 Inch	Insertion Loss (Typ.)	0.4	0.44	0.51	0.64	0.84	dB	1.036

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:	0.2 dB
Base Weight:	0.768 pounds
Additional Weight per Inch:	0.00558 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.768 lbs [348.36 g]

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
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]

Low Loss TNC Male to RA TNC Male Weatherproof Cable LMR-400 Coax with Times Microwave Components



FMCA100307/WP

Tensile Strength 160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male Right Angle
Option	Weatherproof Boot	Weatherproof Boot
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Silver
Contact Plating Specification	50 µin minimum	
Dielectric Type		PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Silver
Body Plating Specification	80 µin minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Silver
Coupling Nut Plating Specification	80 µin minimum	
Boot Material	Silicone	Silicone

Environmental Specifications

Operating Range Temperature -40 to +85 deg C
Ingress Protection (IP) Rating IP68

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

Low Loss TNC Male to RA TNC Male Weatherproof Cable LMR-400 Coax with Times Microwave Components



FMCA100307/WP

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100307/WP - xx uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMCA100307/WP-12 = 12 inches long cable
FMCA100307/WP-100cm = 100 cm long cable

Low Loss TNC Male to RA TNC Male Weatherproof Cable LMR-400 Coax with Times Microwave Components 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 TNC Male to RA TNC Male Weatherproof Cable LMR-400 Coax with Times Microwave Components FMCA100307/WP](https://www.fairviewmicrowave.com/low-loss-tnc-male-to-ra-tnc-male-weatherproof-cable-lmr-400-coax-with-times-microwave-components-fmca100307/wp)

URL: <https://www.fairviewmicrowave.com/low-loss-tnc-male-to-ra-tnc-male-weatherproof-cable-lmr-400-coax-with-times-microwave-components-fmca100307-wp-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 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 liability arising out of the use of any part or document.

