

### Low Loss RP SMA Male to TNC Male Cable LMR-240-UF Coax

# 

#### FMCA100274

#### Configuration

· Connector 1: SMA Male Reverse Polarity

Connector 2: TNC MaleCable Type: LMR-240-UFCoax Flex Type: Flexible

#### **Features**

- · Max Frequency 6 GHz
- · Shielding Effectivity > 90 dB
- · 84% Phase Velocity
- · Double Shielded
- TPE Jacket

#### **Applications**

General Purpose

· Laboratory Use

#### **Description**

The RP SMA male to TNC male cable using LMR-240-UF coax, part number FMCA100274, from Fairview Microwave is in-stock and ships same day. This Fairview reverse polarity SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100274 reverse polarity SMA male to TNC male cable assembly operates to 6 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]
Jacket Spark			5,000	Vrms

#### Specifications by Frequency



### Low Loss RP SMA Male to TNC Male Cable LMR-240-UF Coax

#### FMCA100274

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
FMCA100274	Custom Lengths	Insertion Loss (Typ.)	0.046	0.066	0.096	0.155	0.212	dB/ft	
FIVICATUU2/4	Available	insertion Loss (Typ.)	0.16	0.22	0.32	0.51	0.7	dB/m	
FMCA100274-12	12 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.36	0.42	dB	0.078
FMCA100274-24	24 inch	Insertion Loss (Typ.)	0.3	0.34	0.4	0.51	0.63	dB	0.111
FMCA100274-36	36 inch	Insertion Loss (Typ.)	0.34	0.4	0.49	0.67	0.84	dB	0.143
FMCA100274-60	60 inch	Insertion Loss (Typ.)	0.43	0.53	0.68	0.98	1.26	dB	0.207
FMCA100274-300	300 inch	Insertion Loss (Typ.)	1.35	1.85	2.6	4.08	5.5	dB	0.847

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: 0.1 dB Base Weight: 0.078 pounds Additional Weight per Inch: 0.00267 pounds

#### **Mechanical Specifications**

#### **Cable Assembly**

Width/Diameter 0.5 in [12.7 mm] Weight 0.078 lbs [35.38 g]

#### Cable

Cable Type LMR-240-UF Impedance 50 Ohms Stranded Inner Conductor Type 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 Jacket Diameter 0.24 in [6.1 mm] One Time Minimum Bend Radius 0.75 in [19.05 mm] 2.5 in [63.5 mm] Repeated Minimum Bend Radius **Bending Moment** 0.13 lbs-ft [0.18 N-m]

Flat Plate Crush 13 lbs/in [0.23 Kg/mm] Tensile Strength 80 lbs [36.29 Kg]



## Low Loss RP SMA Male to TNC Male Cable LMR-240-UF Coax

## 61

#### FMCA100274

#### **Connectors**

Description	Connector 1	Connector 2		
Туре	SMA Male Reverse Polarity	TNC Male		
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Straight		
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold		
Dielectric Type	PTFE	РОМ		
Body Material and Plating	Brass, Gold	Brass, Nickel		
Coupling Nut Material and Plating	Brass, Gold			
Hex Size	5/16 inch			
Torque	5 in-lbs 0.57 Nm			

#### **Environmental Specifications**

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:



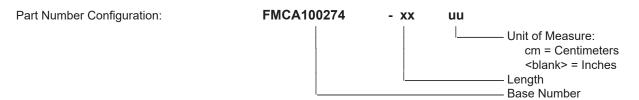
## Low Loss RP SMA Male to TNC Male Cable LMR-240-UF Coax



#### FMCA100274

#### **Typical Performance Data**

#### **How to Order**



Example: FMCA100274-12 = 12 inches long cable

FMCA100274-100cm = 100 cm long cable

Low Loss RP SMA Male to TNC Male Cable LMR-240-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 RP SMA Male to TNC Male Cable LMR-240-UF Coax FMCA100274

URL: https://www.fairviewmicrowave.com/low-loss-rp-sma-male-to-tnc-male-cable-lmr-240-uf-coax-fmca100274-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.

