



FMCA100245

Configuration

· Connector 1: N Male

· Connector 2: TNC Male Reverse Polarity

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

Features

- · Max Frequency 6 GHz
- · Shielding Effectivity > 90 dB
- · 85% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

· General Purpose

· Laboratory Use

Description

The type N male to RP TNC male cable using LMR-400-UF coax, part number FMCA100245, 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-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100245 type N male to reverse polarity 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		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		1.07 [3.51]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency





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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
FMCA100245	Custom Lengths	Insertion Loss (Typ.)	0.023	0.035	0.05	0.081	0.112	dB/ft	
	Available		0.08	0.12	0.17	0.27	0.37	dB/m	
FMCA100245-12	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.25	0.29	0.32	dB	0.246
FMCA100245-24	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.37	0.43	dB	0.333
FMCA100245-36	36 inch	Insertion Loss (Typ.)	0.27	0.31	0.35	0.45	0.54	dB	0.42
FMCA100245-60	60 inch	Insertion Loss (Typ.)	0.32	0.38	0.45	0.61	0.76	dB	0.594
FMCA100245-300	300 inch	Insertion Loss (Typ.)	0.78	1.08	1.45	2.23	3	dB	2.334

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: 0.246 pounds Additional Weight per Inch: 0.00725 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm] Weight 0.246 lbs [111.58 g]

Cable

Cable Type LMR-400-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 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] **Bending Moment** 0.38 lbs-ft [0.52 N-m] Flat Plate Crush 20 lbs/in [0.36 Kg/mm] Tensile Strength 160 lbs [72.57 Kg]





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Connectors

Description	Connector 1	Connector 2
Туре	N Male	TNC Male Reverse Polarity
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold
Contact Plating Specification	50μ" Minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Coupling Nut Material and Plating		Brass, Nickel

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

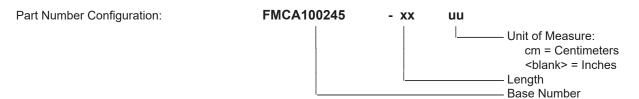




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Typical Performance Data

How to Order



Example: FMCA100245-12 = 12 inches long cable

FMCA100245-100cm = 100 cm long cable

Low Loss N Male to RP 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 RP TNC Male Cable LMR-400-UF Coax FMCA100245

URL: https://www.fairviewmicrowave.com/low-loss-n-male-to-rp-tnc-male-cable-lmr-400-uf-coax-fmca100245-p.aspx

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