

N Male to TNC Male Right Angle Low Loss Cable Using LMR-400-UF Coax



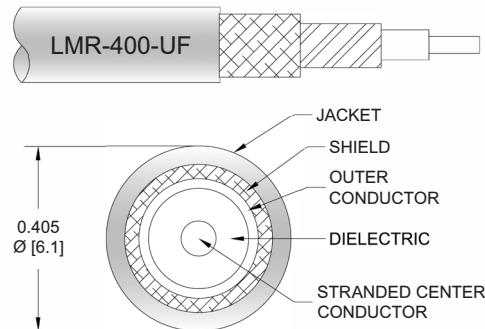
PE3W09410

Configuration

- Connector 1: N Male
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-400-UF
- Coax 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

Pasternack's PE3W09410 type N male to TNC male right angle cable using LMR-400-UF coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3W09410 type N male to TNC male cable assembly operates to 6 GHz. The right angle TNC interface on the LMR-400-UF cable allows for easier connections in tight spaces. The double shielding of this Pasternack 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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. 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]

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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	250	500	1000	2500	6000	MHz	
PE3W09410	Custom Lengths Available	Insertion Loss (Typ.)	0.023	0.035	0.05	0.081	0.112	dB/ft	
			0.08	0.12	0.17	0.27	0.37	dB/m	
PE3W09410-12	12 inch	Insertion Loss (Typ.)	0.38	0.39	0.4	0.44	0.47	dB	0.272
PE3W09410-24	24 inch	Insertion Loss (Typ.)	0.4	0.42	0.45	0.52	0.58	dB	0.359
PE3W09410-36	36 inch	Insertion Loss (Typ.)	0.42	0.46	0.5	0.6	0.69	dB	0.446
PE3W09410-60	60 inch	Insertion Loss (Typ.)	0.47	0.53	0.6	0.76	0.91	dB	0.62
PE3W09410-300	300 inch	Insertion Loss (Typ.)	0.93	1.23	1.6	2.38	3.15	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 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material TPE, 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 0.38 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
Type	N Male	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Silver
Contact Plating Specification	15 μ in minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Silver
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Silver
Hex Size	18 mm	

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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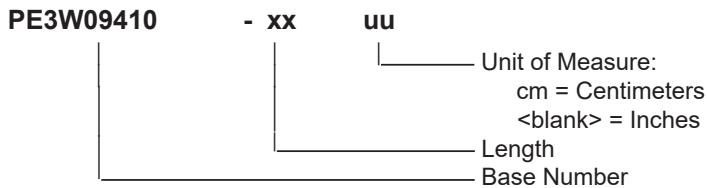


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Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W09410-12 = 12 inches long cable
PE3W09410-100cm = 100 cm long cable

N Male to TNC Male Right Angle Low Loss Cable Using LMR-400-UF Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to TNC Male Right Angle Low Loss Cable Using LMR-400-UF Coax PE3W09410](#)

URL: <https://www.pasternack.com/n-male-to-tnc-male-low-loss-cable-using-lmr-400-uf-pe3w09410-p.aspx>

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PE3W09410 CAD Drawing

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