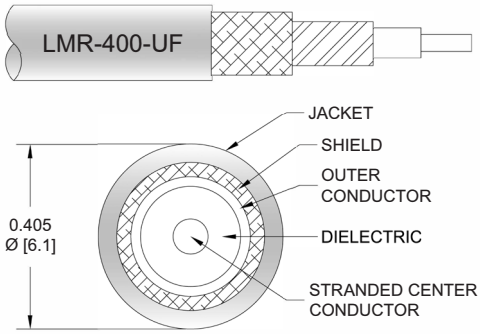
N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-400-UF Coax with Times Microwave Components

PE3W03733

Configuration

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



Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03733 type N male right angle to type N 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3W03733 type N male to type N male cable assembly operates to 8 GHz. The right angle type N interfaces on the LMR-400-UF cable allow 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		8	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]
Operating Voltage (AC)			1,000	Vrms

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Dielectric Withstanding Voltage (AC)			1,500	Vrms
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	
PE3W03733	Custom Lengths Available	Insertion Loss (Typ.)	0.035	0.05	0.072	0.094	0.13	dB/ft	
			0.12	0.17	0.24	0.31	0.43	dB/m	
PE3W03733-12	12 inch	Insertion Loss (Typ.)	0.54	0.55	0.58	0.6	0.63	dB	0.359
PE3W03733-24	24 inch	Insertion Loss (Typ.)	0.57	0.6	0.65	0.69	0.76	dB	0.446
PE3W03733-36	36 inch	Insertion Loss (Typ.)	0.61	0.65	0.72	0.79	0.89	dB	0.533
PE3W03733-60	60 inch	Insertion Loss (Typ.)	0.68	0.75	0.86	0.97	1.15	dB	0.707
PE3W03733-300	300 inch	Insertion Loss (Typ.)	1.38	1.75	2.3	2.85	3.75	dB	2.447

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:	0.25	dB
Loss due to Connector 2:	0.25	dB
Base Weight:	0.359	pounds
Additional Weight per Inch:	0.00725	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.359 lbs [162.84 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 Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	13/16 inch	13/16 inch
Torque	30 in-lbs 3.39 Nm	30 in-lbs 3.39 Nm

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

Part Number Configuration: **PE3W03733 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W03733 — Base Number

Example: PE3W03733-12 = 12 inches long cable
PE3W03733-100cm = 100 cm long cable

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-400-UF Coax with Times Microwave Components 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 Right Angle to N Male Right Angle Low Loss Cable Using LMR-400-UF Coax with Times Microwave Components PE3W03733

URL: https://www.pasternack.com/n-male-right-angle-to-n-male-low-loss-cable-using-lmr-400-uf-pe3w03733-p.aspx

PE3W03733 CAD Drawing

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-400-UF Coax with Times Microwave Components