

N Male Right Angle to N Male Right Angle Low Loss
Cable Using LMR-400-UF Coax Times Microwave
Components with HeatShrink and 180 Deg. Clock



RF Cable Assemblies Technical Data Sheet

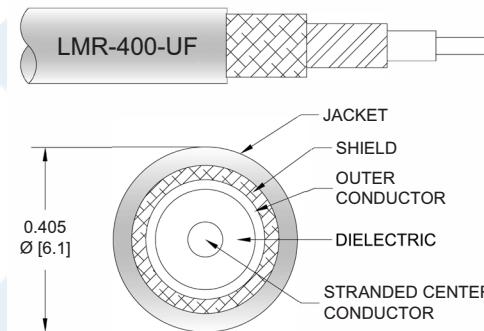
PE3W03733/SP

Configuration

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

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- TPE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03733/SP 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/SP type N male to type N male cable assembly operates to 5.8 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.

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 Times Microwave Components with HeatShrink and 180 Deg. Clock PE3W03733/SP](#)

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
Operating Voltage (AC)			1,000	Vrms
Jacket Spark			8,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.046	0.066	0.096	0.155	0.244	dB/ft
	0.15	0.22	0.31	0.51	0.8	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05 \times \text{SQRT}(f\text{GHz})$ dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.358 lbs [162.39 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

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PE3W03733/SP

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]

Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
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

Temperature

Operating Range

-40 to +85 deg C

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

Plotted and Other Data

Notes:

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PE3W03733/SP

How to Order

Part Number Configuration:

PE3W03733/SP - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

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

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-400-UF Coax Times Microwave Components with HeatShrink and 180 Deg. Clock 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.

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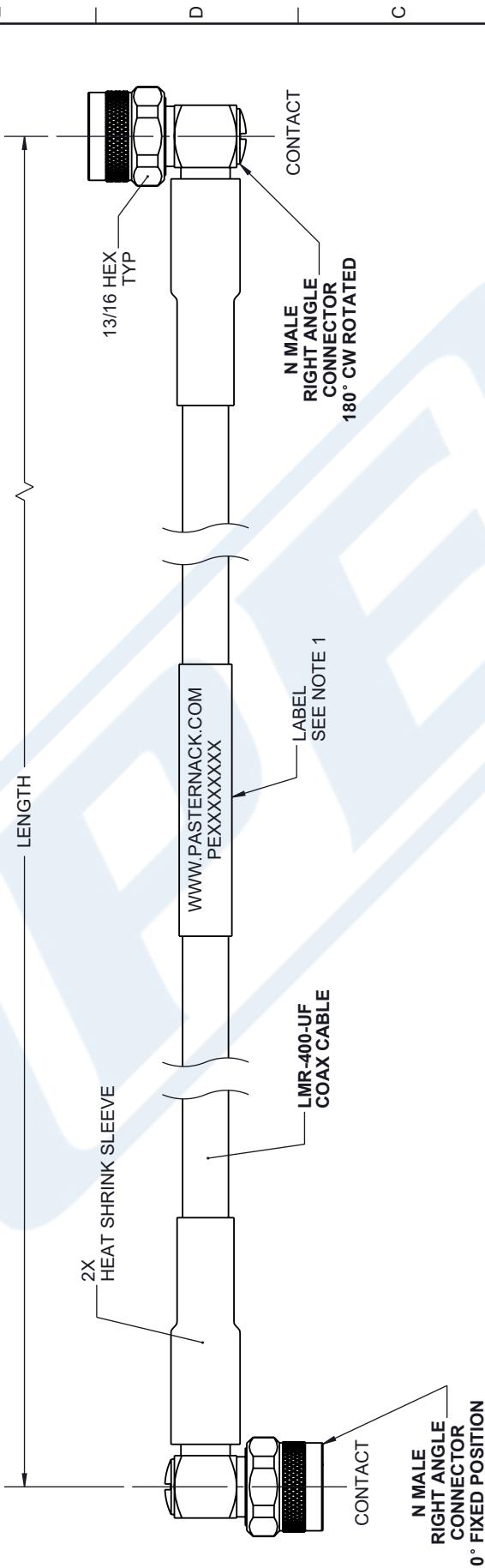
URL: <https://www.pasternack.com/n-male-right-angle-to-n-male-low-loss-cable-using-lmr-400-uf-with-heatshrink-and-180-deg.-clock-pe3w03733-sp-p.aspx>

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PE3W03733/SP CAD Drawing

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-400-UF Coax Times Microwave Components with HeatShrink and 180 Deg. Clock

ZONE	REV.	DESCRIPTION	REV. NUMBER	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE		12/16/2022	KDANG	AGANVANI



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS				SCALE NONE	1 OF 1		
TOLERANCES: $X = \pm 2$ [5] $XX = \pm 02$ [13] $XXX = \pm .005$ [1.3]		FRACTIONS: $\pm 1/32$ $\pm .005$ [1.3]		DESCRIPTION	WEBSITE: www.Pasternack.com PHONE: 1.866.727.8376 / 1.949.261.1920	ITEM NO. PE3W03733/SP	
CABLE LENGTH TOLERANCES: $\gt 12$ [305] ≤ 0 [1524] $= \pm 1$ [51] -0 $\gt 60$ [1524] ≤ 120 [3048] $= \pm 4$ [102] -0 $\gt 120$ [3048] ≤ 300 [7620] $= \pm 6$ [152] -0 $\gt 300$ [7620] $= \pm 5$ [127] -0		$\gt 12$ [305] ≤ 0 [1524] $= \pm 2$ [51] -0 $\gt 60$ [1524] ≤ 120 [3048] $= \pm 4$ [102] -0 $\gt 120$ [3048] ≤ 300 [7620] $= \pm 6$ [152] -0 $\gt 300$ [7620] $= \pm 5$ [127] -0		DRAWN BY KDANG			
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