

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



RF Cable Assemblies Technical Data Sheet

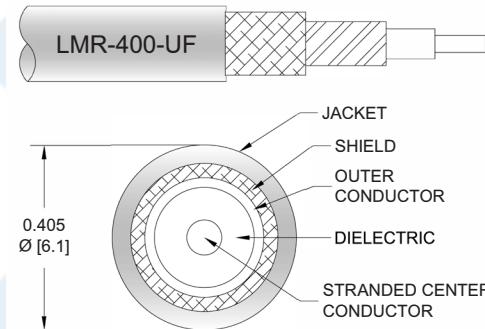
PE3W04805/HS

Configuration

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

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04805/HS type N male right angle 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 PE3W04805/HS type N male to TNC male cable assembly operates to 5.8 GHz. The right angle type N and right angle TNC 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 TNC Male Right Angle Low Loss Cable Using LMR-400-UF Coax with HeatShrink PE3W04805/HS](#)



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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]
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.)	0.023	0.034	0.049	0.081	0.13	dB/ft
	0.08	0.11	0.16	0.27	0.43	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.306 lbs [138.8 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]

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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	TNC Male Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Silver
Contact Plating Specification	30 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

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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PE3W04805/HS

How to Order

Part Number Configuration:

PE3W04805/HS - **xx** **uu**

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

Example: PE3W04805/HS-12 = 12 inches long cable
PE3W04805/HS-100cm = 100 cm long cable

N Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-400-UF Coax with HeatShrink 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-tnc-male-low-loss-cable-using-lmr-400-uf-with-heatshrink-pe3w04805-hs-p.aspx>

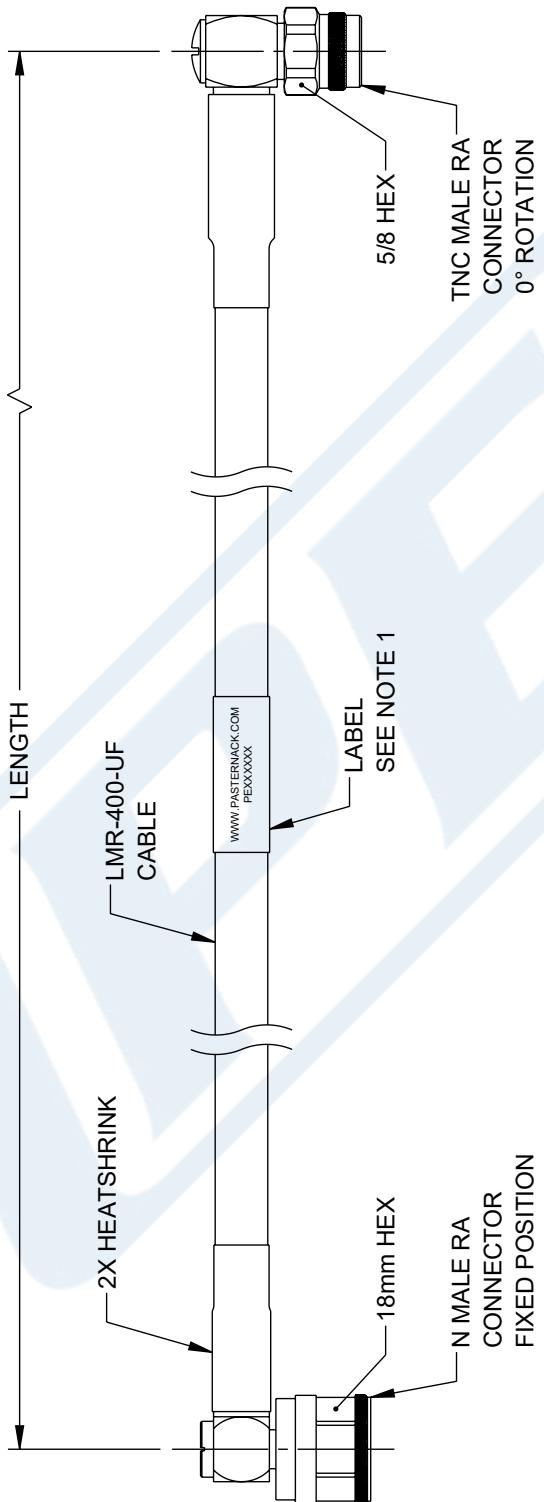
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PE3W04805/HS CAD Drawing

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

A INITIAL RELEASE 06/02/2023 SREITER AGANWAN

ZONE	REV	DESCRIPTION	REVISION	DATE	CHANGED BY	APPROVED
1	1	Initial Version	1	2023-01-01	John Doe	John Doe



NOTES:

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

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES:	SCALE	REV
$X = \pm .2$ [5] $XX = \pm .02$ [.5] $XXX = \pm .005$ [.13]	FRACTIONS $\pm .1/32$ $\pm .006$ $\pm .001$ $\pm .0005$ $\pm .0001$	None	1 OF 1
CABLE LENGTH TOLERANCES:	WEBSITE: www.Pasternack.com PHONE: 1.866.727.8376 1.949.261.1920	DESCRIPTION	
≤ 12 [305] = ± 1 [25] / -0 >12 [305] = ± 6 [15] / -0 ≥ 60 [1524] = ± 12 [3048] = ± 4 [102] / -0 >120 [3048] = ± 300 [7620] = ± 6 [152] / -0 >300 [7620] = ± 45 / -0	N MALE RIGHT ANGLE TO TNC MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-400-UF COAX WITH HEATSHRINK		
SIZE A	CAGE CODE 53919	DRAWN BY SREITER	ITEM NO. PE3W04805/HS
3			A