

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



RF Cable Assemblies Technical Data Sheet

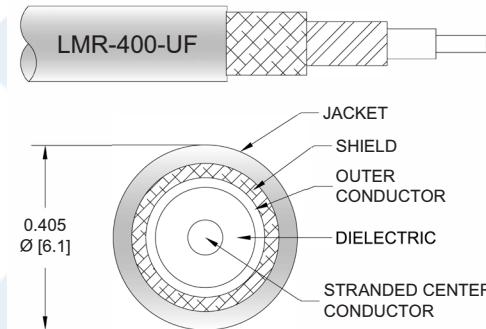
PE3W05598/HS

Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: N Male
- 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 PE3W05598/HS TNC male right angle to type N male 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 TNC to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3W05598/HS TNC male to type N male cable assembly operates to 5.8 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to N Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components with HeatShrink PE3W05598/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 0.1 dB for the N male connector and 0.2 dB for the TNC male connector.

Mechanical Specifications

Cable Assembly

Weight	0.298 lbs [135.17 g]
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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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to N Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components with HeatShrink PE3W05598/HS](#)



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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	TNC Male Right Angle	N Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	Brass, Gold
Contact Plating Specification		50 μ in. minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Tri-Metal
Body Plating Specification		150 μ in. minimum
Coupling Nut Material and Plating	Brass, Silver	Brass, Tri-Metal
Coupling Nut Plating Specification		150 μ in. minimum
Hex Size		13/16 inch

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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PE3W05598/HS

How to Order

Part Number Configuration:

PE3W05598/HS - xx uu

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

Example: PE3W05598/HS-12 = 12 inches long cable
PE3W05598/HS-100cm = 100 cm long cable

TNC Male Right Angle to N Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components 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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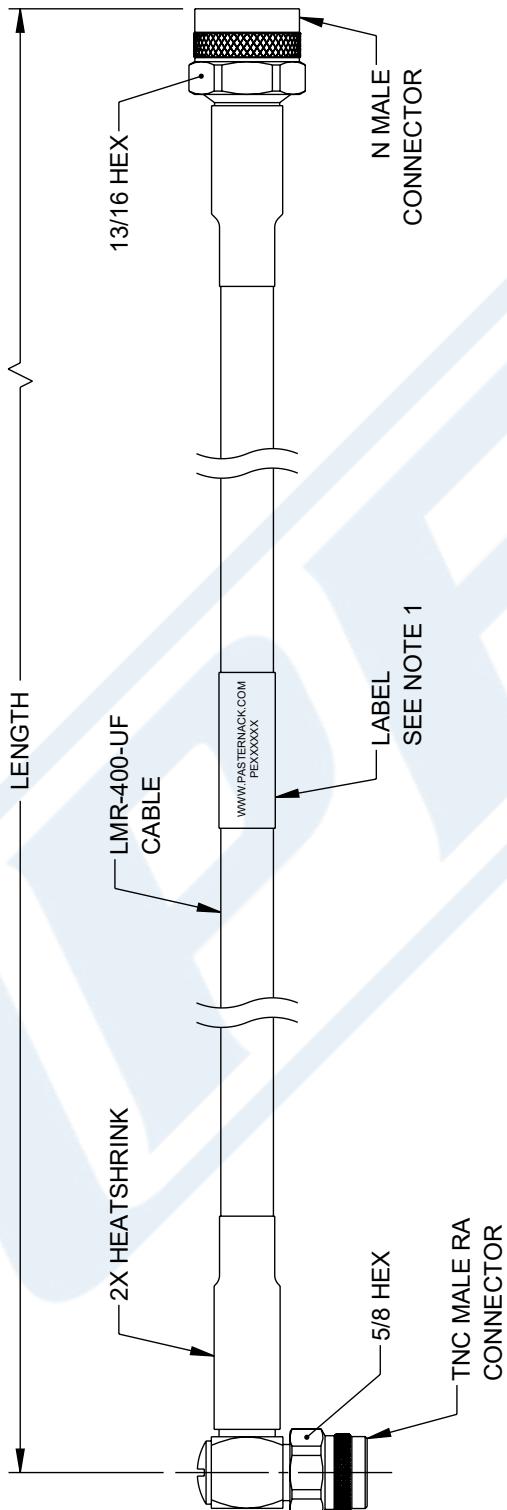
URL: <https://www.pasternack.com/tnc-male-right-angle-to-n-male-low-loss-cable-using-lmr-400-uf-with-heatshrink-pe3w05598-hs-p.aspx>

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PE3W05598/HS CAD Drawing

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

A A INITIAL RELEASE 06/02/2023 SREITER AGANWANI



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.

NOTES:
1. C/
Or
TV
C/
2.

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X = $\pm .2$	[5]	FRACTIONS	SCALE
XX = $\pm .02$	[.5]	$\pm .032$	None
XXX = $\pm .005$	[.13]	ANGLES $\pm 1^\circ$	1 OF 1
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> 60 [1524] = > 120 [3048] = > 44 [1122] = > 4 [102]		ITEM NO.	
> 120 [3048] = > 300 [7620] = > 46 [1168] = > 4 [102]		PE3VW05598/HS	
> 300 [7620] = > 55 [1400]		REV	
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