

N Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 90 Deg. Clock in 48 Inch



RF Cable Assemblies Technical Data Sheet

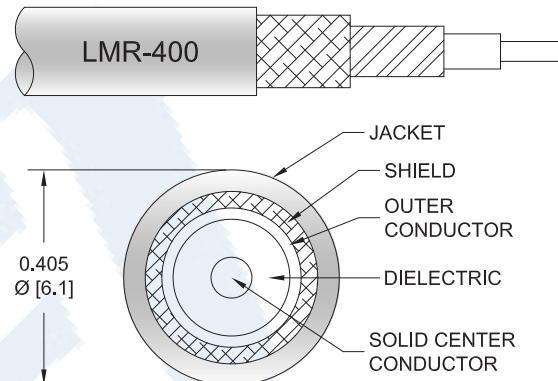
PE3W03732/SP1-48

Configuration

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

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03732/SP1-48 type N male right angle to TNC male right angle cable using LMR-400 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 coax. The PE3W03732/SP1-48 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 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 Coax with HeatShrink and 90 Deg. Clock in 48 Inch PE3W03732/SP1-48](#)

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.5:1	
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		1.39 [4.56]		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	6	GHz
Insertion Loss (Typ.)	0.48	0.52	0.57	0.68	0.84	dB/ft
	1.57	1.71	1.87	2.23	2.76	dB/m

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length*	48 in [121.92 cm]
Weight	0.432 lbs [195.95 g]

Cable

Cable Type	LMR-400
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
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: [N Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 90 Deg. Clock in 48 Inch PE3W03732/SP1-48](#)

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Jacket Material
Jacket Diameter

PE, Black
0.405 in [10.29 mm]

One Time Minimum Bend Radius
Repeated Minimum Bend Radius
Bending Moment
Flat Plate Crush
Tensile Strength

1 in [25.4 mm]
4 in [101.6 mm]
0.5 lbs-ft [0.68 N-m]
40 lbs/in [0.71 Kg/mm]
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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PE3W03732/SP1-48

How to Order

Part Number Configuration:

PE3W03732/SP1

- **xx**

uu

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

Example: PE3W03732/SP1-12 = 12 inches long cable
PE3W03732/SP1-100cm = 100 cm long cable

N Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 90 Deg. Clock in 48 Inch 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-cable-using-lmr-400-with-heatshrink-and-180-deg.-clock-pe3w03732-sp1-48-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3W03732/SP1-48 CAD Drawing

N Male Right Angle to TNC Male Right Angle Low Loss Cable Using
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REV.		DESCRIPTION		DATE	APPROVED
A		INITIAL RELEASE		08/10/2022	AGANWANI
REVISIONS					

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ± 2 [5.08]	FRACTIONS
XX = $\pm .02$ [.51]	$\pm 1/32$
XXX = $\pm .005$ [.13]	ANGLES $\pm 1^\circ$

CABLE LENGTH (L) TOLERANCES:

L \leq 12 [305] = $+1[28]/-0$
12 [305] < L \leq 60 [1524] = $+2[51]/-0$
60 [1524] < L \leq 120 [3048] = $+4[102]/-0$
120 [3048] < L \leq 300 [7620] = $+6[152]/-0$
300 [7620] < L = $+5[6]/-0$

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PASTERNACK
an INFINITE brand

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SCALE N/A

SHEET 1 OF 1

ITEM NO. PE3W03732/SP1

REV. A

NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2
LABELS, ONE AT EACH END 6.0" FROM END OF CONNECTOR

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