



TNC Male to TNC Male Low Loss Cable Using PE-C240 Coax

TECHNICAL DATA SHEET

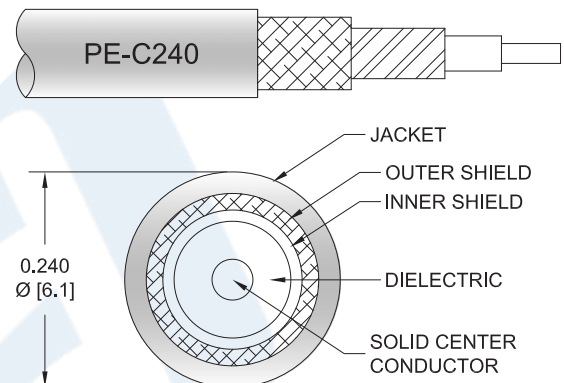
PE3W03474

Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male
- Cable Type: PE-C240
- Coax Flex Type: Flexible

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03474 TNC male to TNC male cable using PE-C240 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 TNC cable assembly has a male to male gender configuration with 50 ohm flexible PE-C240 coax. The PE3W03474 TNC male to TNC male cable assembly operates to 5.8 GHz. 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 to TNC Male Low Loss Cable Using PE-C240 Coax PE3W03474](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
PE3W03474	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.06	0.09	0.15	0.23	dB/ft	
			0.14	0.21	0.3	0.48	0.76	dB/m	
PE3W03474-12	12 inch	Insertion Loss (Typ.)	0.25	0.27	0.29	0.35	0.43	dB	0.131
PE3W03474-24	24 inch	Insertion Loss (Typ.)	0.29	0.33	0.38	0.49	0.66	dB	0.163
PE3W03474-36	36 inch	Insertion Loss (Typ.)	0.33	0.39	0.47	0.64	0.89	dB	0.194
PE3W03474-48	48 inch	Insertion Loss (Typ.)	0.37	0.45	0.56	0.78	1.12	dB	0.225
PE3W03474-60	60 inch	Insertion Loss (Typ.)	0.41	0.51	0.65	0.93	1.35	dB	0.256

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: 0.1*SQRT(FGHz) dB
 Loss due to Connector 2: 0.1*SQRT(FGHz) dB
 Base Weight: 0.131 pounds
 Additional Weight per Inch: 0.00259 pounds

Mechanical Specifications

Cable Assembly

Weight 0.131 lbs [59.42 g]

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PE3W03474

Cable

Cable Type	PE-C240
Impedance	50 Ohms
Inner Conductor Type	Solid
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	PE, Black
Jacket Diameter	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]

Connectors

Description	Connector 1	Connector 2
Type	TNC Male Threaded	TNC Male Threaded
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Contact Plating Specification	50µ in. minimum	50µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80µ in. minimum	80µ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80µ in. minimum	80µ in. minimum
Torque	20 in-lbs [2.26 Nm]	20 in-lbs [2.26 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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TECHNICAL DATA SHEET

PE3W03474

How to Order

Part Number Configuration:

PE3W03474

- **xx**

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

Example: PE3W03474-12 = 12 inches long cable
PE3W03474-100cm = 100 cm long cable

TNC Male to TNC Male Low Loss Cable Using PE-C240 Coax 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.

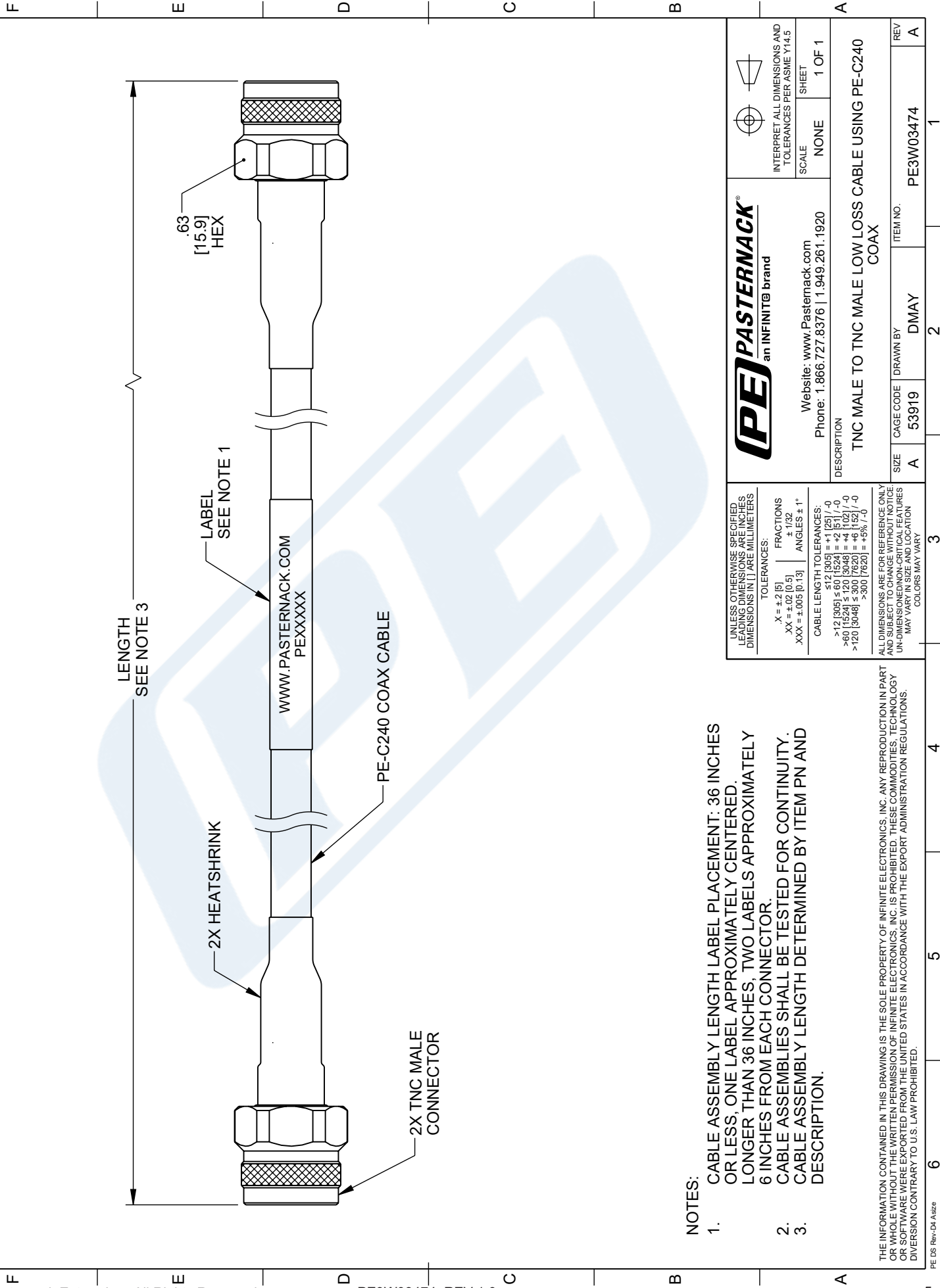
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URL: <https://www.pasternack.com/tnc-male-to-tnc-male-low-loss-cable-using-pe-c240-pe3w03474-p.aspx>

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PE3W03474 CAD Drawing

TNC Male to TNC Male Low Loss Cable Using PE-C240 Coax



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE	NONE
DESCRIPTION TNC MALE TO TNC MALE LOW LOSS CABLE USING PE-C240 COAX		SHEET	1 OF 1
SIZE A	CAGE CODE 53919	DRAWN BY DMAY	ITEM NO. PE3W03474
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.		TOLERANCES:	
X = ±.2 [5]		FRACTIONS	
XX = ±.02 [0.5]		± 1/32	
XXX = ±.005 [0.13]		ANGLES ± 1°	
CABLE LENGTH TOLERANCES:		UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.	
>12 [305] ≤ 36 [914] = ±.125 [-0]		ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.	
>36 [914] ≤ 120 [3048] = ±.25 [-0]		MAY VARY IN SIZE AND LOCATION	
>120 [3048] ≤ 300 [7620] = ±.5 [-0]		COLORS MAY VARY	
>300 [7620] = ±.5 [-0]			