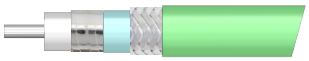
TNC Male to TNC Male Right Angle Low Loss Cable Using PE-P142LL Coax with Lock Wire Holes

PE3C100096

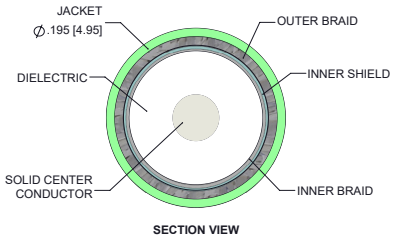
Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male Right Angle
- Cable Type: PE-P142LL
- Coax Flex Type: Flexible



Features

- Max Frequency 18 GHz
- 80% Phase Velocity
- Triple Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C100096 TNC male to TNC male right angle cable using PE-P142LL 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-P142LL coax. The PE3C100096 TNC male to TNC male cable assembly operates to 18 GHz. The right angle TNC interface on the PE-P142LL cable allows for easier connections in tight spaces. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.5:1	
Velocity of Propagation		80		%
Capacitance		25 [82.02]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			1,800	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C100096	Custom Lengths Available	Insertion Loss (Typ.)	0.075	0.107	0.162	0.233	0.342	dB/ft	
			0.25	0.36	0.54	0.77	1.13	dB/m	
PE3C100096-12	12 In	Insertion Loss (Typ.)	0.22	0.31	0.46	0.66	0.94	dB	0.164
PE3C100096-24	24 In	Insertion Loss (Typ.)	0.29	0.42	0.63	0.89	1.28	dB	0.203
PE3C100096-36	36 In	Insertion Loss (Typ.)	0.37	0.52	0.79	1.12	1.62	dB	0.241
PE3C100096-48	48 In	Insertion Loss (Typ.)	0.44	0.63	0.95	1.36	1.97	dB	0.279
PE3C100096-60	60 In	Insertion Loss (Typ.)	0.52	0.74	1.11	1.59	2.31	dB	0.317

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:	0.04*SQRT(FGHz)	dB
Loss due to Connector 2:	0.1*SQRT(FGHz)	dB
Base Weight:	0.164	pounds
Additional Weight per Inch:	0.00317	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.164 lbs [74.39 g]

Cable

Cable Type	PE-P142LL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Aluminum Polyester
Shield Layer 3	Silver Plated Copper Wire
Jacket Material	FEP, Green
Jacket Diameter	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	0.975 in [24.77 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male Right Angle
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification		SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification		SAE-AMS-2700
Hex Size		9/16 inch
Torque	12 in-lbs 1.36 Nm	12 in-lbs 1.36 Nm

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

+1 (866) 558-2786 | sales@pasternack.com | pasternack.com

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C100096 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C100096 — Base Number

Example: PE3C100096-12 = 12 inches long cable
PE3C100096-100cm = 100 cm long cable

TNC Male to TNC Male Right Angle Low Loss Cable Using PE-P142LL Coax with Lock Wire Holes 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.

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 Right Angle Low Loss Cable Using PE-P142LL Coax with Lock Wire Holes PE3C100096

URL: https://www.pasternack.com/tnc-male-to-tnc-male-low-loss-cable-using-pe-p142ll-pe3c100096-p.aspx

PE3C100096 CAD Drawing

TNC Male to TNC Male Right Angle Low Loss Cable Using PE-P142LL Coax with Lock Wire Holes