

SMA Female to TNC Male Low Loss Cable Using PE-P142LL Coax with Lock Wire Holes

PE3C11118

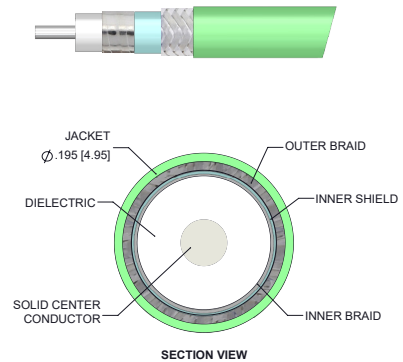


Configuration

- Connector 1: SMA Female
- Connector 2: TNC Male
- 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 PE3C11118 SMA female to TNC male 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 SMA to TNC cable assembly has a female to male gender configuration with 50 ohm flexible PE-P142LL coax. The PE3C11118 SMA female to TNC male cable assembly operates to 18 GHz. 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]

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	
PE3C11118	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	
PE3C11118-12	12 In	Insertion Loss (Typ.)	0.17	0.24	0.36	0.51	0.73	dB	0.1
PE3C11118-24	24 In	Insertion Loss (Typ.)	0.24	0.35	0.52	0.74	1.07	dB	0.139
PE3C11118-36	36 In	Insertion Loss (Typ.)	0.32	0.45	0.68	0.97	1.41	dB	0.177
PE3C11118-48	48 In	Insertion Loss (Typ.)	0.39	0.56	0.84	1.21	1.75	dB	0.215
PE3C11118-60	60 In	Insertion Loss (Typ.)	0.47	0.67	1.01	1.44	2.1	dB	0.253

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: 0.05*SQRT(FGHz) dB

Loss due to Connector 2: 0.04*SQRT(FGHz) dB

Base Weight: 0.1 pounds

Additional Weight per Inch: 0.00317 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.1 lbs [45.36 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	SMA Female	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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
Torque		12 in-lbs 1.36 Nm

Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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PE3C11118

Typical Performance Data

How to Order

Part Number Configuration:

PE3C11118

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- Unit of Measure:
cm = Centimeters
<blank> = Inches

- Length

- Base Number

Example: PE3C11118-12 = 12 inches long cable
PE3C11118-100cm = 100 cm long cable

SMA Female to TNC Male 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: [SMA Female to TNC Male Low Loss Cable Using PE-P142LL Coax with Lock Wire Holes PE3C11118](#)

URL: <https://www.pasternack.com/sma-female-to-tnc-male-low-loss-cable-using-pe-p142ll-pe3c11118-p.aspx>

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PE3C11118 CAD Drawing
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