

SMA Male Right Angle to TNC Male Low Loss Cable Using PE-P142LL Coax, RoHS



RF Cable Assemblies Technical Data Sheet

PE3C1179

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: TNC Male
- Cable Type: PE-P142LL

Features

- · Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.45:1 to 18 GHz
- · Minimum Bend Radius of 1 Inch
- Operating Temperature range of -55 to +125°C
- · ROHS and REACH Compliant
- · Same day shipment of customs lengths

JACKET Ø.195 [4.95] DIELECTRIC INNER SHIELD SOLID CENTER CONDUCTOR SECTION VIEW

Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C1179 SMA male right angle 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 male to male gender configuration with 50 ohm flexible PE-P142LL coax. The PE3C1179 SMA male to TNC male cable assembly operates to 18 GHz. The right angle SMA 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 of better than 95 dB. The PE3C1179 series high performance test cable's 0.195 inch diameter and 83% phase velocity offer very low loss performance up to 18 GHz. The durable stainless steel connectors and FEP jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. The series is offered with Type N, TNC, and SMA connectors all rated to 18 GHz. A heavy duty boot provides improved strain relief and adds to the durability of the cable assemblies. These cable assemblies are built using a double shielded flexible cable, providing excellent shielding effectiveness of greater than 95 dB. All PE3C1179 cable assemblies are 100% Continuity, Hi-POT, and RF tested to published specifications. Custom lengths are built to order and shipped same day

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: SMA Male Right Angle to TNC Male Low Loss Cable Using PE-P142LL Coax, RoHS PE3C1179

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



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Electrical Specifications

Description	Description Minimum		Maximum	Units	
Frequency Range	DC		18	GHz	
VSWR			1.45:1		
Return Loss			14.72	dB	
Insertion Loss			0.4	dB/ft	
			1.31	dB/m	
Velocity of Propagation		83		%	
RF Shielding	95			dB	
Capacitance		25 [82.02]	The state of the s	pF/ft [pF/m]	

Specifications	by	Frequency	

Specifications by Frequency						
Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.1	0.1	0.2	0.3	0.4	dB/ft
	0.33	0.46	0.66	0.95	1.31	dB/m
Insertion Loss (Typ.)	0.07	0.1	0.16	0.23	0.33	dB/ft
	0.23	0.33	0.52	0.75	1.08	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.05dB x vFrequency (GHz) per connector.

Mechanical Specifications

Cable Assembly

Weight 0.2 lbs [90.72 g]

Cable

Cable Type PE-P142LL 50 Ohms Impedance Solid Inner Conductor Type Inner Conductor Material and Plating Copper, Silver **PTFE**

Dielectric Type Number of Shields

Shield Layer 1 Silver Plated Copper Tape Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper Wire

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Jacket Material Jacket Diameter FEP, Green 0.195 in [4.95 mm]

One Time Minimum Bend Radius

1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male Right Angle	TNC Male	
Specification	MIL-PRF-39012	MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	ASTM-B488, 50μ In. Min	ASTM-B488, 50µ In. Min	
Dielectric Type	PTFE	PEI	
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Outer Conductor Plating Specification	SAE-AMS-2700	SAE-AMS-2701	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2701	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2701	
Hex Size	5/16 Inch	9/16 Inch	
Torque	8 in-lbs [0.9 Nm]		

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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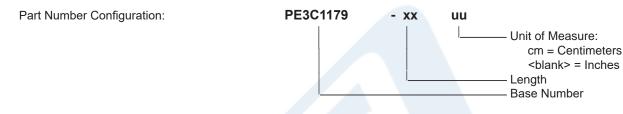
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How to Order



Example: PE3C1179-12 = 12 inches long cable PE3C1179-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Low Loss Cable Using PE-P142LL Coax, RoHS 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/sma-male-tnc-male-pe-p142ll-cable-assembly-pe3c1179-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.

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