



RF Cable Assemblies Technical Data Sheet

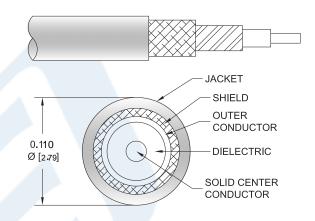
PE3W05481-100CM

Configuration

- Connector 1: Push-OnSMP Female Right Angle
- Connector 2: TNC Female Reverse Polarity Bulkhead
- Cable Type: LMR-100A

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3W05481-100CM SMP female push-on right angle to reverse polarity TNC female bulkhead 100 cm cable using LMR-100 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 SMP to reverse polarity TNC cable assembly has a female to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3W05481-100CM SMP female to reverse polarity TNC female cable assembly operates to 3 GHz. The right angle SMP interface on the LMR-100A cable allows for easier connections in tight spaces. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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: Push-On SMP Female Right Angle to Reverse Polarity TNC Female Bulkhead Cable 100 cm Length Using LMR-100 Coax PE3W05481-100CM

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	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		735	1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ohms/1000ft [Ohms/
Km]				
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/
Km]				
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.68	0.85	1.09	1.62	1.73	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm]
Diameter 0.68 in [17.27 mm]

Cable

Cable Type LMR-100A Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type PE Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

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Jacket MaterialPVC, BlackJacket Diameter0.11 in [2.79 mm]

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

0.1 lbs-ft [0.14 N-m]

Flat Plate Crush

10 lbs/in [0.18 Kg/mm]

Tensile Strength

15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2 TNC Female Reverse Polarity Bulkhead		
Туре	SMP Female Right Angle			
Specification	MIL-STD-348A	MIL-STD-348		
Impedance	50 Ohms	50 Ohms		
Connection Method	Push-On			
Contact Material and Plating	Beryllium Copper, Gold	Phosphor Bronze, Gold		
Contact Plating Specification	30μ in. minimum	30 μin minimum		
Dielectric Type	Teflon	PTFE		
Outer Conductor Material and Plating	Beryllium Copper, Gold			
Outer Conductor Plating Specification	3μ in. minimum			
Body Material and Plating	Brass, Gold	Brass, Nickel		
Body Plating Specification	3μ in. minimum			

Mechanical Specification Notes:

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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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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How to Order



Example: PE3W05481-12 = 12 inches long cable

PE3W05481-100cm = 100 cm long cable

Push-On SMP Female Right Angle to Reverse Polarity TNC Female Bulkhead Cable 100 cm Length Using LMR-100 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/smp-female-tnc-female-lmr100-cable-assembly-pe3w05481-100cm-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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PE3W05481-100CM CAD DrawingPush-On SMP Female Right Angle to Reverse Polarity TNC Female Bulkhead Cable 100 cm Length Using LMR-100 Coax

