



RF Cable Assemblies Technical Data Sheet

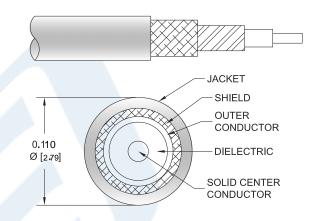
PE3W05481-50CM

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 PE3W05481-50CM SMP female push-on right angle to reverse polarity TNC female bulkhead 50 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 PE3W05481-50CM 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 50 cm Length Using LMR-100 Coax PE3W05481-50CM

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





RF Cable Assemblies Technical Data Sheet

PE3W05481-50CM

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|---------------|---------|--------------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | / 100 | 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.) | 0.49 | 0.57 | 0.7 | 0.96 | 1.02 | 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* 19.68 in [499.87 mm]
Diameter 0.68 in [17.27 mm]

Cable

Cable TypeLMR-100AImpedance50 OhmsInner Conductor TypeSolid

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

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 50 cm Length Using LMR-100 Coax PE3W05481-50CM

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





RF Cable Assemblies Technical Data Sheet

PE3W05481-50CM

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

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

Bending Moment

Flat Plate Crush

Tensile Strength

0.25 in [6.35 mm]

1 in [25.4 mm]

0.1 lbs-ft [0.14 N-m]

10 lbs/in [0.18 Kg/mm]

15 lbs [6.8 Kg]

Connectors

| Description | Connector 1 | Connector 2 | | |
|---------------------------------------|------------------------|--------------------------------------|--|--|
| Туре | SMP Female Right Angle | TNC Female Reverse Polarity Bulkhead | | |
| 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:

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 50 cm Length Using LMR-100 Coax PE3W05481-50CM

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

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





RF Cable Assemblies Technical Data Sheet

PE3W05481-50CM

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 50 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.

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 50 cm Length Using LMR-100 Coax PE3W05481-50CM

URL: https://www.pasternack.com/smp-female-tnc-female-lmr100-cable-assembly-pe3w05481-50cm-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.

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

PE3W05481-50CM CAD Drawing
Push-On SMP Female Right Angle to Reverse Polarity TNC Female Bulkhead Cable 50 cm Length Using LMR-100 Coax

