

TNC Male Right Angle to SMB Plug Right Angle Low Loss Cable Using LMR-100 Coax

PE3W13465

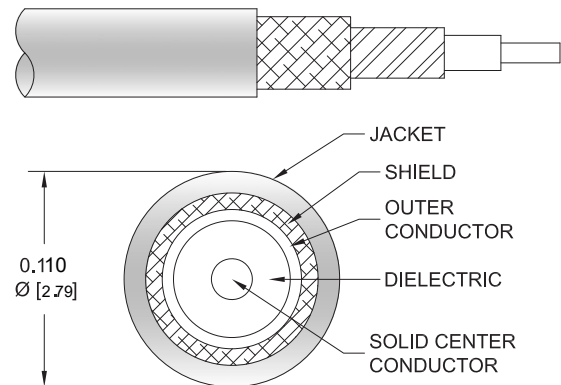


Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: SMB Plug Right Angle
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W13465 TNC male right angle to SMB plug right angle 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 TNC to SMB cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-100A coax. The PE3W13465 TNC male to SMB plug cable assembly operates to 4 GHz. The right angle TNC and right angle SMB interfaces on the LMR-100A cable allow for easier connections in tight spaces. 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			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]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000	MHz	
PE3W13465	Custom Lengths Available	Insertion Loss (Typ.)	0.064	0.115	0.165	0.24	0.502	dB/ft	
			0.21	0.38	0.55	0.79	1.65	dB/m	
PE3W13465-24	24 In	Insertion Loss (Typ.)	0.53	0.63	0.73	0.88	1.41	dB	0.08
PE3W13465-36	36 In	Insertion Loss (Typ.)	0.6	0.75	0.9	1.12	1.91	dB	0.089
PE3W13465-48	48 In	Insertion Loss (Typ.)	0.66	0.86	1.06	1.36	2.41	dB	0.098
PE3W13465-100CM	100 CM	Insertion Loss (Typ.)	0.61	0.78	0.95	1.19	2.05	dB	0.092
PE3W13465-200CM	200 CM	Insertion Loss (Typ.)	0.82	1.16	1.49	1.98	3.7	dB	0.122

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.071 pounds
Additional Weight per Inch:	0.00075 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.071 lbs [32.21 g]

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
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
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]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	SMB Plug Right Angle
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		30 µin minimum
Dielectric Type	POM	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Outer Conductor Plating Specification		100 µin minimum
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification		100 µin minimum

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

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PE3W13465

Typical Performance Data

How to Order

Part Number Configuration:	PE3W13465	- xx	uu	
				Unit of Measure:
				cm = Centimeters
				<blank> = Inches
				Length
				Base Number

Example: PE3W13465-12 = 12 inches long cable
PE3W13465-100cm = 100 cm long cable

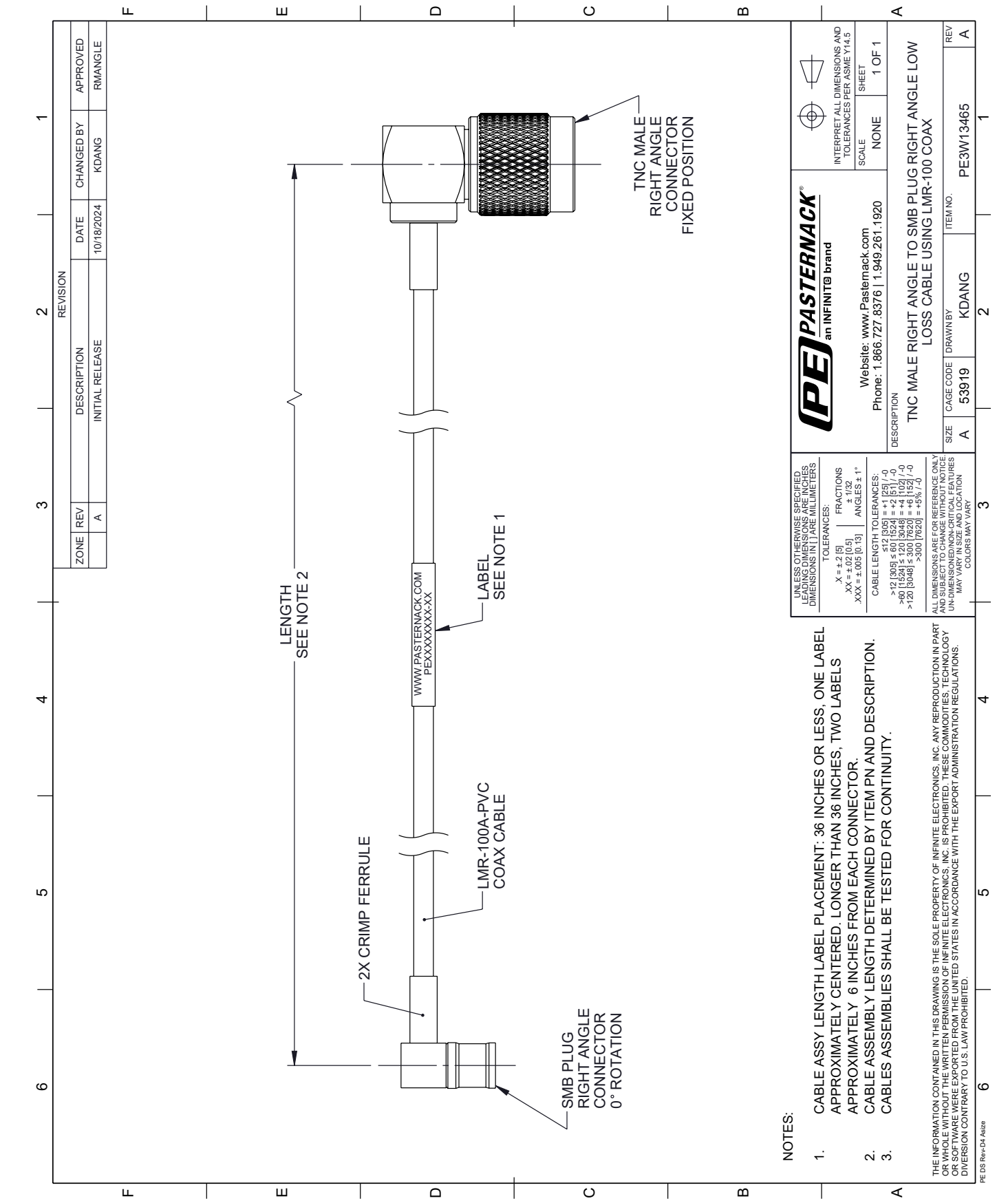
TNC Male Right Angle to SMB Plug Right Angle Low Loss Cable Using LMR-100 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to SMB Plug Right Angle Low Loss Cable Using LMR-100 Coax PE3W13465](#)

URL: <https://www.pasternack.com/tnc-male-right-angle-to-smb-plug-low-loss-cable-using-lmr-100-pe3w13465-p.aspx>

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PE3W13465 CAD Drawing
TNC Male Right Angle to SMB Plug Right Angle Low Loss Cable Using LMR-100 Coax



NOTES:

- 1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- 2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- 3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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