

BNC Female Bulkhead to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax



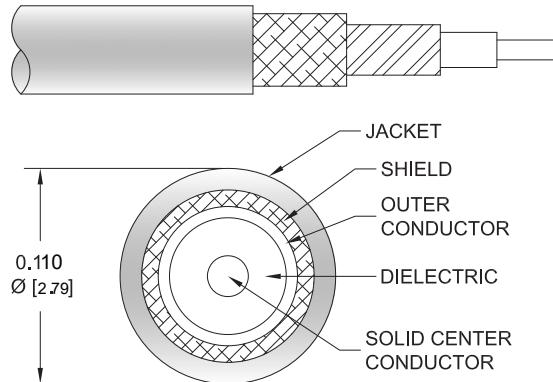
PE3W07145

Configuration

- Connector 1: BNC Female Bulkhead
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W07145 BNC female bulkhead to TNC male 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 BNC to TNC cable assembly has a female to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W07145 BNC female to TNC male cable assembly operates to 1 GHz. The right angle TNC interface on the LMR-100A cable allows for easier connections in tight spaces. Our RF cable assembly with BNC 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1	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	50	100	250	500	1000	MHz	
PE3W07145	Custom Lengths Available	Insertion Loss (Typ.)	0.039	0.064	0.115	0.165	0.24	dB/ft	
			0.13	0.21	0.38	0.55	0.79	dB/m	
PE3W07145-24	24 in	Insertion Loss (Typ.)	0.38	0.43	0.53	0.63	0.78	dB	0.112
PE3W07145-36	36 in	Insertion Loss (Typ.)	0.42	0.5	0.65	0.8	1.02	dB	0.121
PE3W07145-48	48 in	Insertion Loss (Typ.)	0.46	0.56	0.76	0.96	1.26	dB	0.13
PE3W07145-100CM	100 CM	Insertion Loss (Typ.)	0.43	0.51	0.68	0.85	1.09	dB	0.124
PE3W07145-200CM	200 CM	Insertion Loss (Typ.)	0.56	0.72	1.06	1.39	1.88	dB	0.154

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: 0.1 dB
Base Weight: 0.103 pounds
Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.103 lbs [46.72 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	BNC Female Bulkhead	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 μ m minimum	
Dielectric Type	PTFE	POM
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ m 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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PE3W07145

Typical Performance Data

How to Order

Part Number Configuration:

PE3W07145 - **xx** **uu**

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

Length

Base Number

Example: PE3W07145-12 = 12 inches long cable
PE3W07145-100cm = 100 cm long cable

BNC Female Bulkhead to TNC Male 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: [BNC Female Bulkhead to TNC Male Right Angle Low Loss Cable Using LMR-100 Coax PE3W07145](#)

URL: <https://www.pasternack.com/bnc-female-bulkhead-to-tnc-male-low-loss-cable-using-lmr-100-pe3w07145-p.aspx>

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PE3W07145 CAD Drawing

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