

BNC Male to TNC Female Low Loss Cable Using LMR-400-DB Coax with HeatShrink

PE3W22252/HS

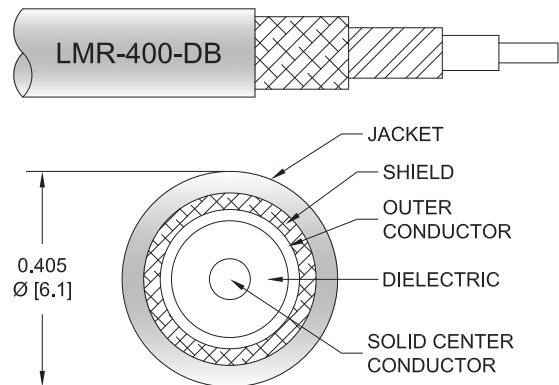


Configuration

- Connector 1: BNC Male
- Connector 2: TNC Female
- Cable Type: LMR-400-DB
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W22252/HS BNC male to TNC female cable using LMR-400-DB 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 male to female gender configuration with 50 ohm flexible LMR-400-DB coax. The PE3W22252/HS BNC male to TNC female cable assembly operates to 6 GHz. 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3W22252/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.028	0.041	0.068	0.108	dB/ft	
			0.07	0.1	0.14	0.23	0.36	dB/m	
PE3W22252/HS-12	12 In	Insertion Loss (Typ.)	0.47	0.48	0.5	0.52	0.56	dB	0.653
PE3W22252/HS-24	24 In	Insertion Loss (Typ.)	0.49	0.51	0.54	0.59	0.67	dB	0.723
PE3W22252/HS-36	36 In	Insertion Loss (Typ.)	0.51	0.54	0.58	0.66	0.78	dB	0.793
PE3W22252/HS-48	48 In	Insertion Loss (Typ.)	0.53	0.57	0.62	0.73	0.89	dB	0.863
PE3W22252/HS-60	60 In	Insertion Loss (Typ.)	0.55	0.59	0.66	0.79	0.99	dB	0.933

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:	0.25 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.653 pounds
Additional Weight per Inch:	0.00583 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.241 lbs [109.32 g]

Cable

Cable Type	LMR-400-DB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.405 in [10.29 mm]
One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	TNC Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 microns	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Specification	80 microns	
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	80 microns	

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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PE3W22252/HS

Typical Performance Data

How to Order

Part Number Configuration: **PE3W22252/HS - xx uu**

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

Length

Base Number

Example: PE3W22252/HS-12 = 12 inches long cable
PE3W22252/HS-100cm = 100 cm long cable

BNC Male to TNC Female Low Loss Cable Using LMR-400-DB Coax with HeatShrink 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 Male to TNC Female Low Loss Cable Using LMR®-400-DB Coax with HeatShrink PE3W22252/HS](#)

URL: <https://www.pasternack.com/bnc-male-to-tnc-female-low-loss-cable-using-lmr-400-db-with-heatshrink-pe3w22252-hs-p.aspx>

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PE3W22252/HS CAD Drawing
BNC Male to TNC Female Low Loss Cable Using LMR-400-DB Coax with HeatShrink

