

N Male to Reverse Polarity SMA Plug Low Loss Cable Using LMR-400-DB Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

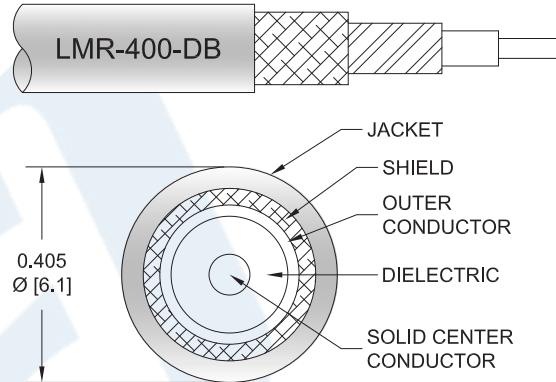
PE3W09150/HS

Configuration

- Connector 1: N Male
- Connector 2: SMA Plug Reverse Polarity
- Cable Type: LMR-400-DB

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09150/HS type N male to reverse polarity SMA plug 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 type N to reverse polarity SMA cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-400-DB coax. The PE3W09150/HS type N male to reverse polarity SMA plug 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to Reverse Polarity SMA Plug Low Loss Cable Using LMR-400-DB Coax with Heat-Shrink PE3W09150/HS](#)

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.012	0.028	0.041	0.068	0.108	dB/ft
	0.04	0.09	0.13	0.22	0.35	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

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]

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Bending Moment
Flat Plate Crush
Tensile Strength

0.5 lbs-ft [0.68 N-m]
40 lbs/in [0.71 Kg/mm]
160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Plug Reverse Polarity
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μ in. minimum	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Gold
Body Plating Specification	150 μ in. minimum	Brass, Gold
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Gold
Coupling Nut Plating Specification	150 μ in. minimum	Brass, Gold
Hex Size	13/16 inch	16-May inch
Torque		3 in-lbs [0.34 Nm]

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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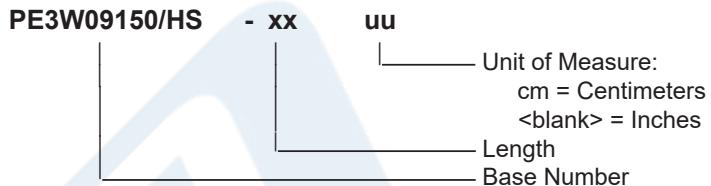


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How to Order

Part Number Configuration:



Example: PE3W09150/HS-12 = 12 inches long cable
PE3W09150/HS-100cm = 100 cm long cable

N Male to Reverse Polarity SMA Plug 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.

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URL: <https://www.pasternack.com/n-male-to-reverse-polarity-sma-plug-low-loss-cable-using-lmr-400-db-with-heatshrink-pe3w09150-hs-p.aspx>

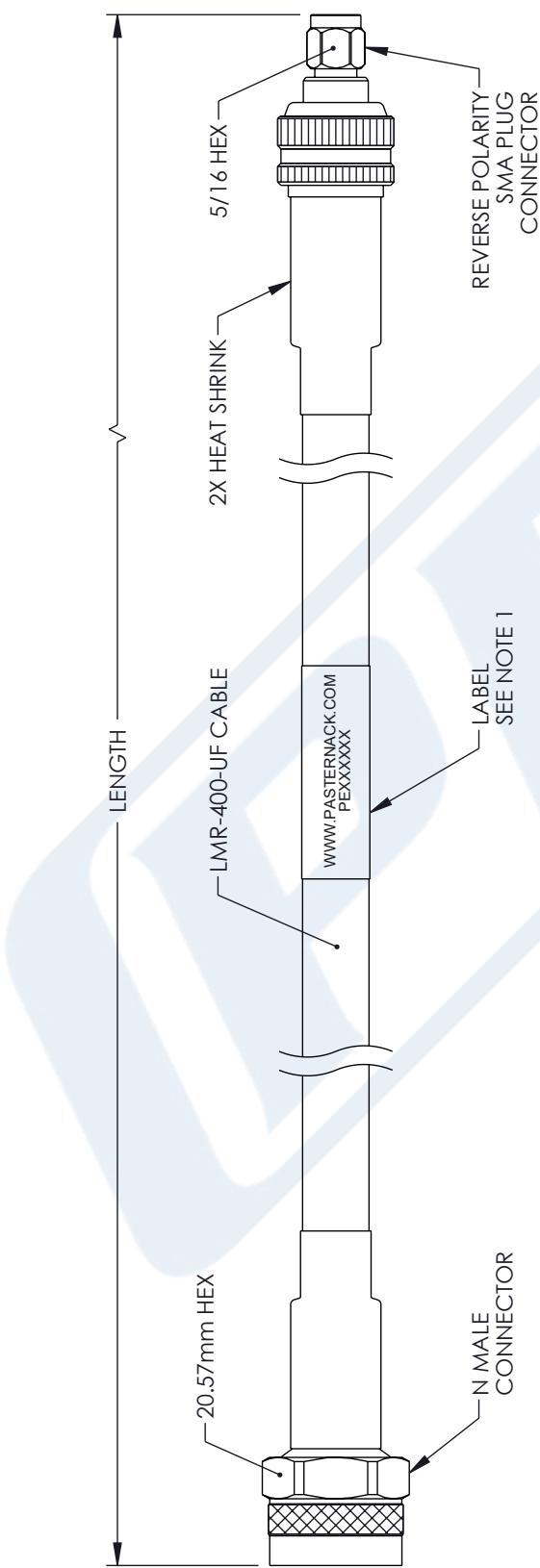
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PE3W09150/HS CAD Drawing

N Male to Reverse Polarity SMA Plug Low Loss Cable

Using LMR-400-DB Coax with HeatShrink

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/20/2023	DZINN	AGANWANI



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES
FROM EACH CONNECTOR.

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