

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

### PE3W12076/HS

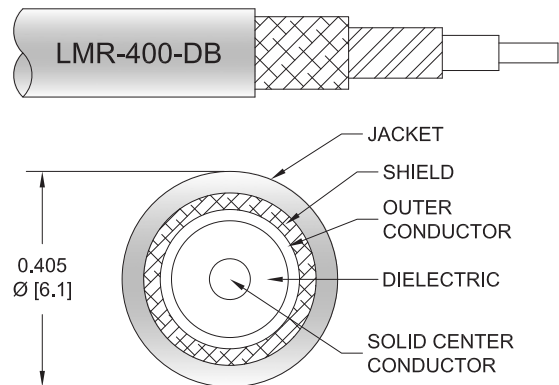


#### Configuration

- Connector 1: SMA Plug Reverse Polarity
- Connector 2: N Female
- Cable Type: LMR-400-DB
- Coax Flex Type: Flexible

#### Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W12076/HS reverse polarity SMA plug to type N 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 reverse polarity SMA to type N cable assembly has a plug to female gender configuration with 50 ohm flexible LMR-400-DB coax. The PE3W12076/HS reverse polarity SMA plug to type N female cable assembly operates to 8 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		8	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	500	1000	2000	4000	8000	MHz	
PE3W12076/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.028	0.041	0.06	0.079	0.108	dB/ft	
			0.1	0.14	0.2	0.26	0.36	dB/m	
PE3W12076/HS-12	12 inch	Insertion Loss (Typ.)	0.23	0.25	0.26	0.28	0.31	dB	0.211
PE3W12076/HS-24	24 inch	Insertion Loss (Typ.)	0.26	0.29	0.32	0.36	0.42	dB	0.282
PE3W12076/HS-36	36 inch	Insertion Loss (Typ.)	0.29	0.33	0.38	0.44	0.53	dB	0.352
PE3W12076/HS-48	48 inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.52	0.64	dB	0.422
PE3W12076/HS-60	60 inch	Insertion Loss (Typ.)	0.34	0.41	0.5	0.6	0.74	dB	0.492

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:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.211 pounds
Additional Weight per Inch:	0.00584 pounds

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.211 lbs [95.71 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	SMA Plug Reverse Polarity	N Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Gold	
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

#### 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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### PE3W12076/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W12076/HS**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W12076/HS-12 = 12 inches long cable  
PE3W12076/HS-100cm = 100 cm long cable

Reverse Polarity SMA Plug to N 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: [Reverse Polarity SMA Plug to N Female Low Loss Cable Using LMR-400-DB Coax with HeatShrink PE3W12076/HS](https://www.pasternack.com/reverse-polarity-sma-plug-to-n-female-low-loss-cable-using-lmr-400-db-with-heatshrink-pe3w12076-hs-p.aspx)

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