

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



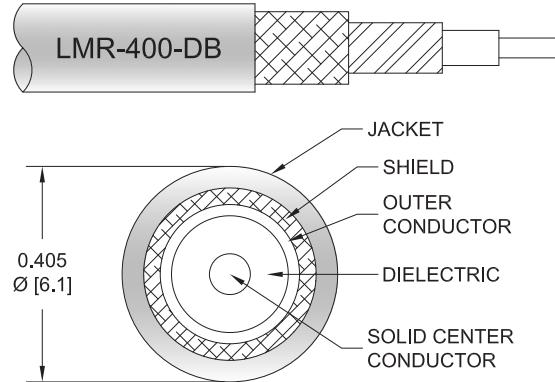
PE3W12076/HS

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]

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



PE3W12076/HS

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]

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



PE3W12076/HS

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:

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

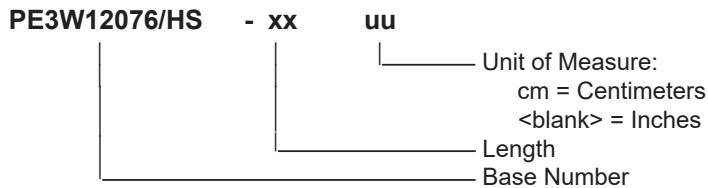


PE3W12076/HS

Typical Performance Data

How to Order

Part Number Configuration:



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](#)

URL: <https://www.pasternack.com/reverse-polarity-sma-plug-to-n-female-low-loss-cable-using-lmr-400-db-with-heatshrink-pe3w12076-hs-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W12076/HS CAD Drawing

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

