



RF Cable Assemblies Technical Data Sheet

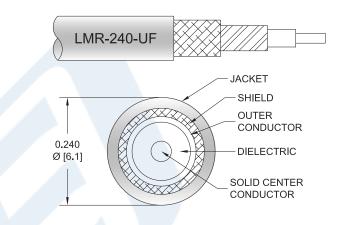
PE3W02398/HS-50CM

Configuration

Connector 1: SMA MaleConnector 2: N FemaleCable Type: LMR-240-UF

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- · Double Shielded
- TPE Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3W02398/HS-50CM SMA male to type N female 50 cm cable using LMR-240-UF 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 SMA to type N cable assembly has a male to female gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W02398/HS-50CM SMA male to type N female cable assembly operates to 5.8 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to N Female Cable 50 cm Length Using LMR-240-UF Coax with HeatShrink PE3W02398/HS-50CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR		7,550	1.45:1	
Velocity of Propagation		84		%
RF Shielding	90	A = A		dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	5.8	GHz
Insertion Loss (Max.)	0.31	0.33	0.4	0.5	0.68	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1dB per connector.

Mechanical Specifications

Cable Assembly

Length* 19.69 in [500.13 mm]
Diameter 0.67 in [17.02 mm]

Cable

Cable TypeLMR-240-UFImpedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopperDielectric TypePE (F)Number of Shields2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

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Jacket MaterialTPE, BlackJacket Diameter0.24 in [6.1 mm]

One Time Minimum Bend Radius0.75 in [19.05 mm]Repeated Minimum Bend Radius2.5 in [63.5 mm]Bending Moment0.13 lbs-ft [0.18 N-m]Flat Plate Crush13 lbs/in [0.23 Kg/mm]Tensile Strength80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2 N Female	
Туре	SMA Male		
Specification	MIL-STD-348		
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	ASTM B488		
Dielectric Type	Teflon	PTFE	
Body Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal	
Body Plating Specification	SAE-AMS-2700		
Coupling Nut Material and Plating	Passivated Stainless Steel		
Coupling Nut Plating Specification	SAE-AMS-2700		

Mechanical Specification Notes:

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

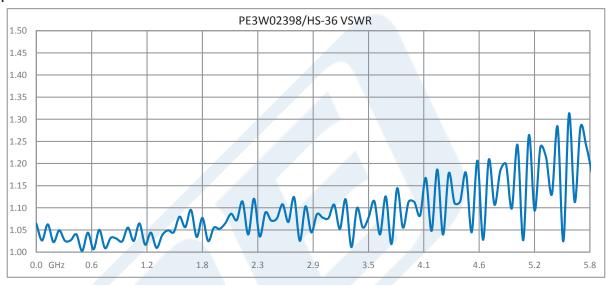




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Typical Performance Data





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How to Order



Example: PE3W02398/HS-12 = 12 inches long cable PE3W02398/HS-100cm = 100 cm long cable

SMA Male to N Female Cable 50 cm Length Using LMR-240-UF 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/sma-male-n-female-Imr240uf-cable-assembly-pe3w02398-hs-50cm-p.aspx

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE3W02398/HS-50CM CAD DrawingSMA Male to N Female Cable 50 cm Length Using LMR-240-UF Coax with HeatShrink

