

SMA Male Right Angle to N Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

PE3W06417/HS

Configuration

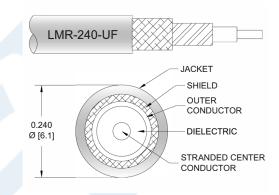
· Connector 1: SMA Male Right Angle

· Connector 2: N Male

· Cable 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 PE3W06417/HS SMA male right angle to type N male 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 male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W06417/HS SMA male to type N male cable assembly operates to 5.8 GHz. The right angle SMA interface on the LMR-240-UF cable allows for easier connections in tight spaces. 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 Right Angle to N Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink PE3W06417/HS

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
Velocity of Propagation		84		%
RF Shielding	90			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

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F1	F2	F3	F4	F5	Units
0.25	0.5	1	2.5	5.8	GHz
0.046	0.066	0.095	0.155	0.244	dB/ft
0.15	0.22	0.31	0.51	8.0	dB/m
	F1 0.25 0.046	F1 F2 0.25 0.5 0.046 0.066	F1 F2 F3 0.25 0.5 1 0.046 0.066 0.095	F1 F2 F3 F4 0.25 0.5 1 2.5 0.046 0.066 0.095 0.155	F1 F2 F3 F4 F5 0.25 0.5 1 2.5 5.8 0.046 0.066 0.095 0.155 0.244

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.122 lbs [55.34 g]

Cable

Cable Type
LMR-240-UF
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
LMR-240-UF
Stranded
Copper
Dielectric Type
PE (F)
Pumber of Shields

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

Jacket Material TPE, Black
Jacket Diameter 0.24 in [6.1 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

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Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength

2.5 in [63.5 mm] 0.13 lbs-ft [0.18 N-m] 13 lbs/in [0.23 Kg/mm] 80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male Right Angle	N Male	
Specification		MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	50 μin minimum	30 μin minimum	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Gold	Brass, Tri-Metal	
Body Plating Specification	3 µin minimum		
Coupling Nut Material and Plating	Brass, Gold	Brass, Tri-Metal	
Coupling Nut Plating Specification	3 μin minimum		
Hex Size	16-May inch		
Torque	3 in-lbs [0.34 Nm]		

Environmental Specifications Temperature

-40 to +85 deg C **Operating Range**

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order



Example: PE3W06417/HS-12 = 12 inches long cable PE3W06417/HS-100cm = 100 cm long cable

SMA Male Right Angle to N Male Low Loss Cable 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-right-angle-to-n-male-low-loss-cable-using-lmr-240-uf-with-heatshrink-pe3w06417-hs-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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PE3W06417/HS CAD Drawing
SMA Male Right Angle to N Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink ш ш O ⋖ INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 ⋖ APPROVED BY AGANWANI 1 PF SMA MALE RIGHT ANGLE TO N MALE LOW LOSS CABLE USING LMR-240-UF COAX WITH HEATSHRINK SHEET PE3W06417/HS NONE CHANGED BY DZINN 18mm HEX PASTERNACK ITEM NO. 01/20/2023 Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 DATE N MALE CONNECTOR an INFINIT® brand REVISION DZINN N INITIAL RELEASE DESCRIPTION CAGE CODE 53919 SIZE ⋖ ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. >60 [1524] < 120 [3048] = +4 [102] / -0 > 120 [3048] = +6 [152] / -0 UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS ± 1/32 ANGLES ± 1° >12 [305] = +1 [25] / -0 >12 [305] < 60 [1524] = +2 [51] / -0 FRACTIONS CABLE LENGTH TOLERANCES: >300 [7620] = +5% / -0 က REV. ⋖ TOLERANCES: ZONE $X = \pm .2$ [5] $X = \pm .02$ [5] $X = \pm .02$ [.5] $XXX = \pm .005$ [.13] SEE NOTE WWW.PASTERNACK.COM PEXXXXXX LMR-240-UF CABLE LABEL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PRAT OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINE ELECTRONICS, INC. IS PROHIBITED.
THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO US. LAW PROHIBITED. LENGTH CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY. 2 2X HEAT SHRINK SMA MALE RA CONNECTOR 5/16 HEX FROM EACH CONNECTOR NOTES: 7 ш Ш © 2020 Pasternack Enterprises All Rights Reserved PE3W06417/HS REV 1 В ⋖

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