

## SMA Male Right Angle to N Male Low Loss Cable Using LMR-240 Coax with Times Microwave Components with HeatShrink, LF Solder



### PE3W16302LF/HS

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: N Male
- Cable Type: LMR-240
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W16302LF/HS SMA male right angle to type N male cable using LMR-240 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 coax. The PE3W16302LF/HS SMA male to type N male cable assembly operates to 6 GHz. The right angle SMA interface on the LMR-240 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
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		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]

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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

**Specifications by Frequency**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency						
PE3W16302LF/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.039	0.055	0.079	0.129	0.204	dB/ft	
			0.13	0.19	0.26	0.43	0.67	dB/m	
PE3W16302LF/HS-12	12 Inch	Insertion Loss (Typ.)	0.39	0.41	0.43	0.48	0.56	dB	0.138
PE3W16302LF/HS-24	24 Inch	Insertion Loss (Typ.)	0.43	0.46	0.51	0.61	0.76	dB	0.171
PE3W16302LF/HS-36	36 Inch	Insertion Loss (Typ.)	0.47	0.52	0.59	0.74	0.97	dB	0.204
PE3W16302LF/HS-48	48 Inch	Insertion Loss (Typ.)	0.51	0.57	0.67	0.87	1.17	dB	0.237
PE3W16302LF/HS-60	60 Inch	Insertion Loss (Typ.)	0.55	0.63	0.75	1	1.37	dB	0.27

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:	0.25 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.138 pounds
Additional Weight per Inch:	0.09417 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.138 lbs [62.6 g]

**Cable**

Cable Type	LMR-240
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
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	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

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### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	N Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Torque	7 in-lbs 0.79 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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**PE3W16302LF/HS**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3W16302LF/HS - xx uu**



Example: PE3W16302LF/HS-12 = 12 inches long cable  
PE3W16302LF/HS-100cm = 100 cm long cable

SMA Male Right Angle to N Male Low Loss Cable Using LMR-240 Coax with Times Microwave Components with HeatShrink, LF Solder 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: [SMA Male Right Angle to N Male Low Loss Cable Using LMR-240 Coax with Times Microwave Components with HeatShrink, LF Solder PE3W16302LF/HS](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-n-male-low-loss-cable-using-lmr-240-with-heatshrink-lf-solder-pe3w16302lf-hs-p.aspx>

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# PE3W16302LF/HS CAD Drawing

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