

QMA Male Right Angle to SMA Male Low Loss Cable Using LMR-240-UF Coax with Times Microwave Components



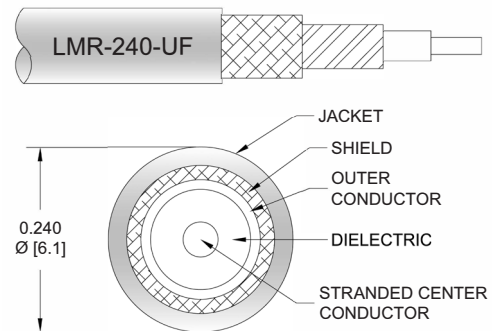
PE3W10931

Configuration

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

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10931 QMA male right angle to SMA 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 QMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W10931 QMA male to SMA male cable assembly operates to 6 GHz. The right angle QMA 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.

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		4.28 [14.04]		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	250	500	1000	2500	6000	MHz	
PE3W10931	Custom Lengths Available	Insertion Loss (Typ.)	0.046	0.066	0.095	0.155	0.244	dB/ft	
			0.16	0.22	0.32	0.51	0.81	dB/m	
PE3W10931-12	12 In	Insertion Loss (Typ.)	0.35	0.37	0.4	0.46	0.55	dB	0.079
PE3W10931-24	24 In	Insertion Loss (Typ.)	0.4	0.44	0.49	0.61	0.79	dB	0.112
PE3W10931-36	36 In	Insertion Loss (Typ.)	0.44	0.5	0.59	0.77	1.04	dB	0.144
PE3W10931-60	60 In	Insertion Loss (Typ.)	0.53	0.63	0.78	1.08	1.52	dB	0.208
PE3W10931-300	300 In	Insertion Loss (Typ.)	1.45	1.95	2.68	4.18	6.4	dB	0.848

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:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.079 pounds
Additional Weight per Inch:	0.00267 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.079 lbs [35.83 g]

Cable

Cable Type	LMR-240-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
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	TPE, 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	0.13 lbs-ft [0.18 N-m]
Flat Plate Crush	13 lbs/in [0.23 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	QMA Male Right Angle	SMA Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	ASTM B488
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Outer Conductor Plating Specification	80 µin minimum	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin minimum	
Coupling Nut Material and Plating		Brass, Tri-Metal
Hex Size		5/16 Inch

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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PE3W10931

Typical Performance Data

How to Order

Part Number Configuration:

PE3W10931

- XX

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- Unit of Measure:
cm = Centimeters
<blank> = Inches

- Length

- Base Number

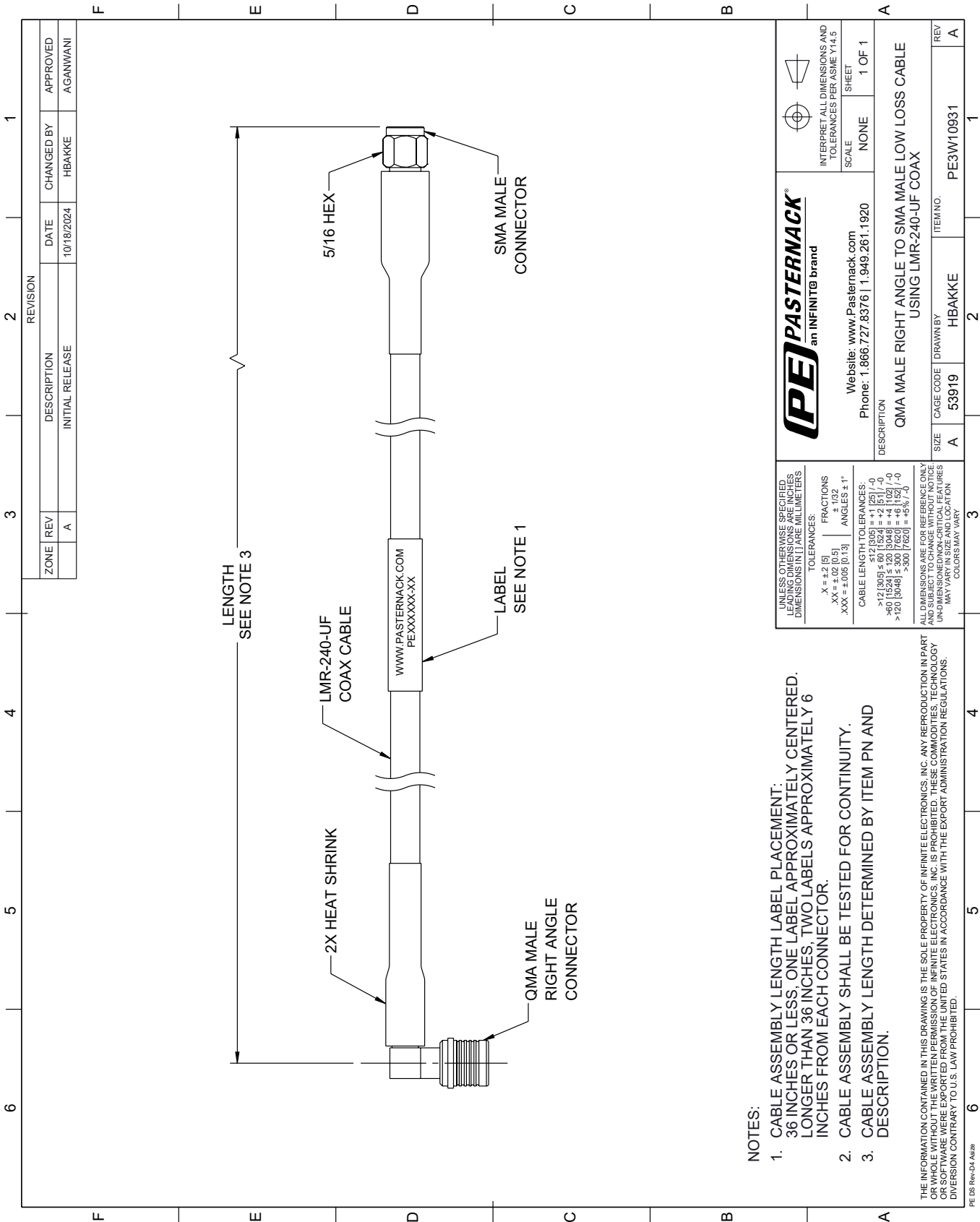
Example: PE3W10931-12 = 12 inches long cable
PE3W10931-100cm = 100 cm long cable

QMA Male Right Angle to SMA Male Low Loss Cable Using LMR-240-UF Coax with Times Microwave Components 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: [QMA Male Right Angle to SMA Male Low Loss Cable Using LMR-240-UF Coax with Times Microwave Components PE3W10931](#)

URL: <https://www.pasternack.com/qma-male-right-angle-to-sma-male-low-loss-cable-using-lmr-240-uf-pe3w10931-p.aspx>

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