

QMA Male Right Angle to Reverse Polarity SMA Plug Low Loss Cable Using LMR-240-UF Coax



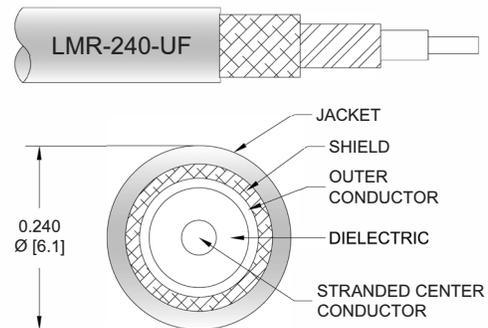
PE3W08789

Configuration

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

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 PE3W08789 QMA male right angle to reverse polarity SMA plug 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 reverse polarity SMA cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W08789 QMA male to reverse polarity SMA plug cable assembly operates to 5.8 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		5.8	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					MHz	
PE3W08789	Custom Lengths Available	Insertion Loss (Typ.)	0.05	0.07	0.1	0.16	0.244	dB/ft	
			0.16	0.22	0.32	0.51	0.81	dB/m	
PE3W08789-12	12 inch	Insertion Loss (Typ.)	0.35	0.37	0.4	0.46	0.55	dB	0.071
PE3W08789-24	24 inch	Insertion Loss (Typ.)	0.4	0.44	0.49	0.61	0.79	dB	0.101
PE3W08789-36	36 inch	Insertion Loss (Typ.)	0.44	0.5	0.59	0.77	1.04	dB	0.131
PE3W08789-60	60 inch	Insertion Loss (Typ.)	0.53	0.63	0.78	1.08	1.52	dB	0.191
PE3W08789-300	300 inch	Insertion Loss (Typ.)	1.45	1.95	2.68	4.18	6.4	dB	0.791

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:	0.2 dB
Base Weight:	0.071 pounds
Additional Weight per Inch:	0.0025 pounds

Mechanical Specifications

Cable Assembly

Weight 0.071 lbs [32.21 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 Plug Reverse Polarity
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Brass, Nickel	Brass, Gold
Coupling Nut Material and Plating		Brass, Gold
Hex Size		5/16 inch
Torque		3 in-lbs 0.34 Nm

Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

QMA Male Right Angle to Reverse Polarity SMA Plug Low Loss Cable Using LMR-240-UF Coax



PE3W08789

Typical Performance Data

How to Order

Part Number Configuration:

PE3W08789

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W08789-12 = 12 inches long cable
PE3W08789-100cm = 100 cm long cable

QMA Male Right Angle to Reverse Polarity SMA Plug Low Loss Cable Using LMR-240-UF Coax 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.

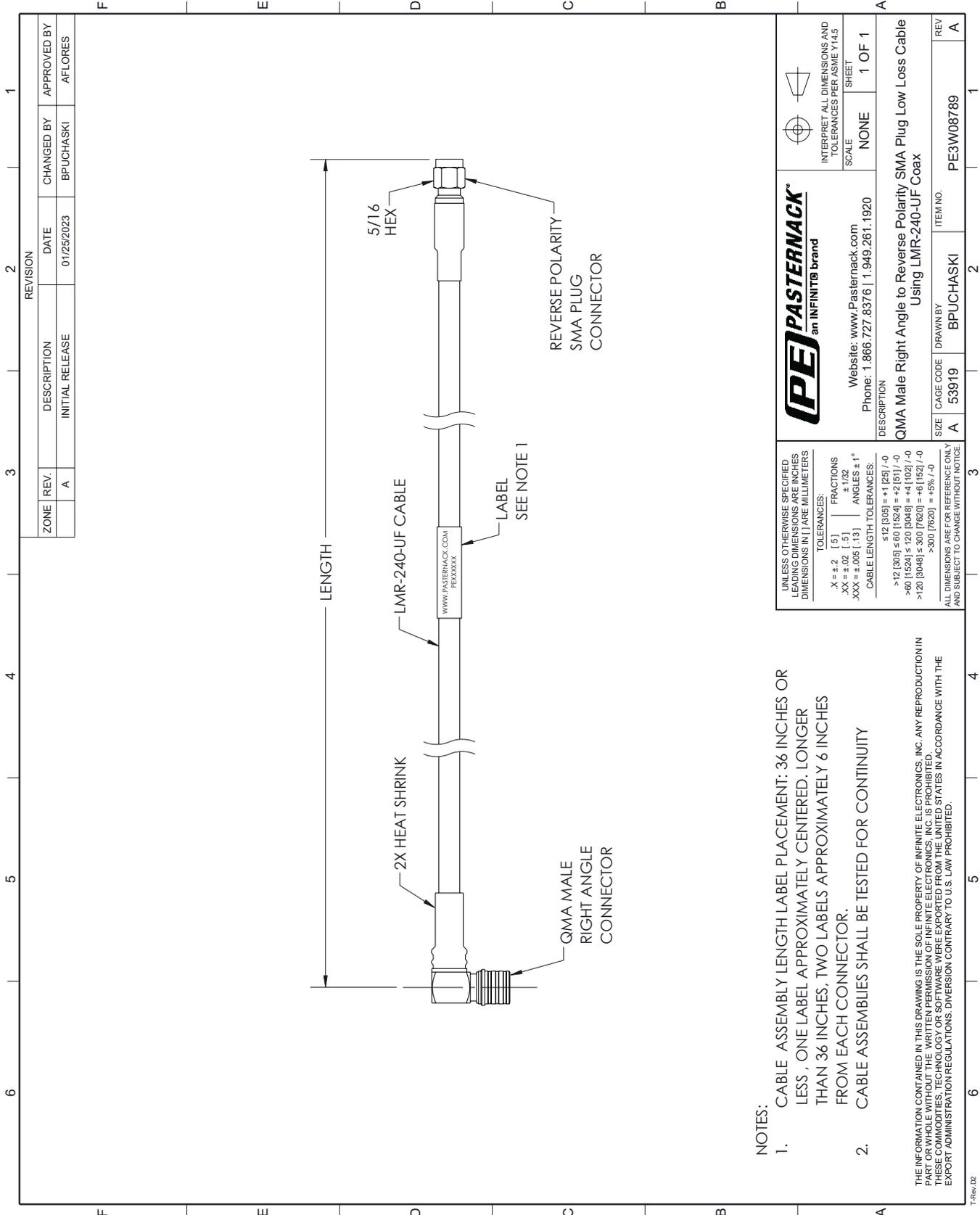
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle to Reverse Polarity SMA Plug Low Loss Cable Using LMR-240-UF Coax PE3W08789](#)

URL: <https://www.pasternack.com/qma-male-right-angle-to-reverse-polarity-sma-plug-low-loss-cable-using-lmr-240-uf-pe3w08789-p.aspx>

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PE3W08789 CAD Drawing

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NOTES:

1. CABLE ASSEMBLY LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ±.2 [.5] FRACTIONS
 XX = ±.02 [.5]
 XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:

<12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +6% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

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SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: QMA Male Right Angle to Reverse Polarity SMA Plug Low Loss Cable Using LMR-240-UF Coax

SIZE: A CAGE CODE: 53919 DRAWN BY: BPUCHASKI ITEM NO.: PE3W08789 REV: A