



RF Cable Assemblies Technical Data Sheet

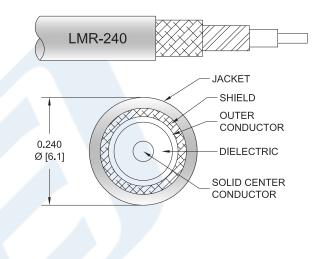
PE3W00906-12

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Reverse Polarity
- Cable Type: LMR-240

Features

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



Applications

General Purpose

Laboratory Use

Description

Pasternack's PE3W00906-12 SMA male to reverse polarity SMA male 12 inch 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 reverse polarity SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3W00906-12 SMA male to reverse polarity SMA male cable assembly operates to 5.8 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effective-ness 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 Reverse Polarity SMA Male Cable 12 Inch Length Using LMR-240 Coax PE3W00906-12





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.3:1	
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]		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	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.24	0.25	0.28	0.33	0.4	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 as estimated insertin loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly Length* Diameter Weight	12 in [304.8 mm] 0.312 in [7.92 mm] 0.07 lbs [31.75 g]
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2	LMR-240 50 Ohms Solid Copper PE (F) 2 Aluminum Tape Tinned Copper Braid

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Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength PE, Black 0.24 in [6.1 mm]

0.75 in [19.05 mm] 2.5 in [63.5 mm] 0.25 lbs-ft [0.34 N-m] 20 lbs/in [0.36 Kg/mm] 80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2 SMA Male Reverse Polarity	
Туре	SMA Male		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Phosphor Bronze, Gold	Gold	
Dielectric Type	Teflon	PTFE	
Body Material and Plating	Brass, Gold	Brass, Gold	
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold	
Hex Size	5/16 in	5/16 in.	
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 Nm]	

Mechanical Specification Notes:

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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PE3W00906-12



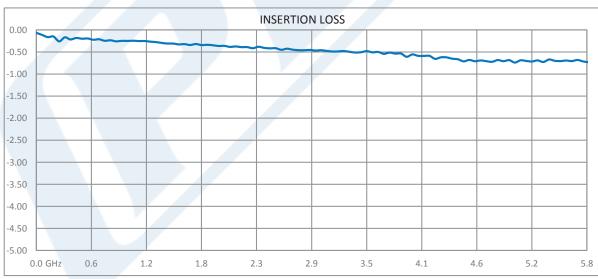
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PE3W00906-12

PE3W00906-36 VSWR 1.50 1.45 1.40 1.35 1.30 1.25 1.20 1.15 1.10 1.05 1.00 0.0 GHz 4.1 0.6 1.2 1.8 2.3 3.5 4.6 5.2 5.8 29 INSERTION LOSS

Typical Performance Data



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Example:

SMA Male to Reverse Polarity SMA Male Cable 12 Inch Length Using LMR-240 Coax



PE3W00906-12

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How to Order PE3W00906 Part Number Configuration: - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** PE3W00906-12 = 12 inches long cable PE3W00906-100cm = 100 cm long cable

SMA Male to Reverse Polarity SMA Male Cable 12 Inch Length Using LMR-240 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: SMA Male to Reverse Polarity SMA Male Cable 12 Inch Length Using LMR-240 Coax PE3W00906-12

URL: https://www.pasternack.com/sma-male-sma-male-Imr240-cable-assembly-pe3w00906-12-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.

PE3W00906-12 CAD Drawing SMA Male to Reverse Polarity SMA Male Cable 12 Inch Length Using LMR-240 Coax

