

Waterproof IP68 4.3-10 Male (Plug) to SMA Male (Plug) Low Loss Cable Using LMR-240 Coax with Times Microwave Components

PE3C6912/WP

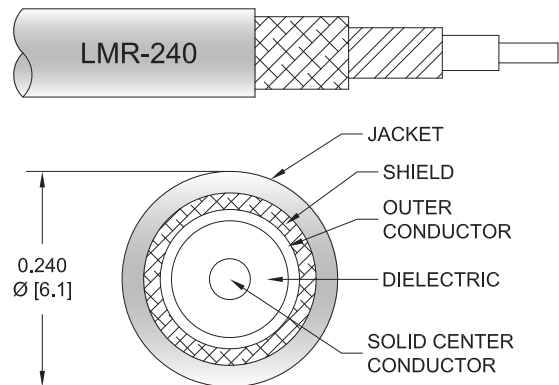


Configuration

- Connector 1: 4.3-10 Male
- Connector 2: SMA 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
- Silicone Connector Boot
- IP68 Rated



Applications

- General Purpose
- Laboratory Use

Description

The Pasternack PE3C6912/WP is a weatherproof low loss cable assembly that comes with 4.3-10 male connection on one end and SMA male with weatherproof boot on the other. Pasternack's RF coaxial cable assembly products are designed for typical use, production, laboratory test and measurement, defense/military, aerial antenna towers, etc. The low loss cable has a 50 Ohm impedance and is specifically ready for quicker shipment than most in the industry can provide.

This weatherproof low loss RF cable assembly operates at a maximum frequency of 6 GHz. Our RF cable assembly has a PE jacket with 0.240 inches diameter. The 4.3-10 male to SMA male cable assembly PE3C6912/WP is built with LMR-240 coax, which has a flexible design. This RF cable assembly with 0.5 inches diameter has copper as cable's inner conducting material and PE (F) dielectric type. The weatherproof boot low loss cable is reusable and can withstand elements including extreme temperature. Additional dimensions, specifications, and CAD drawings for this PE3C6912/WP low loss RF cable are available on our downloadable PDF datasheet.

Pasternack stocks a wide selection of weatherproof low loss cable assemblies that ship the same business day as ordered from our warehouse. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal 4.3-10 male to SMA male cable assembly as per your requirements.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
DC Resistance Inner Conductor		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (DC)			1,500	Vdc
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	
PE3C6912/WP	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	
PE3C6912/WP-24	24 In	Insertion Loss (Typ.)	0.23	0.29	0.36	0.52	0.76	dB	0.688
PE3C6912/WP-36	36 In	Insertion Loss (Typ.)	0.27	0.34	0.44	0.65	0.96	dB	0.721
PE3C6912/WP-48	48 In	Insertion Loss (Typ.)	0.31	0.2	0.52	0.78	1.17	dB	0.754
PE3C6912/WP-60	60 In	Insertion Loss (Typ.)	0.35	0.45	0.6	0.91	1.37	dB	0.787

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: $0.1 \times \sqrt{\text{F}} \times \text{SQRT}(\text{FGHz})$ dB

Base Weight: 0.655 pounds

Additional Weight per Inch: 0.00275 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.655 lbs [297.1 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
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	4.3-10 Male	SMA Male
Option		Weatherproof Boot
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Beryllium Copper, Gold
Contact Plating Specification	200 µin minimum	ASTM B488
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Passivated Stainless Steel, Gold
Body Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel, Gold
Body Plating Specification	80 µin minimum	SAE-AMS-2700
Coupling Nut Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel
Coupling Nut Plating Specification	80 µin minimum	SAE-AMS-2700
Boot Material	Silicone	Silicone

Environmental Specifications

Ingress Protection (IP) Rating IP68

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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Typical Performance Data

How to Order

Part Number Configuration:

PE3C6912/WP

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C6912/WP-12 = 12 inches long cable
PE3C6912/WP-100cm = 100 cm long cable

Waterproof IP68 4.3-10 Male (Plug) to SMA Male (Plug) Low Loss Cable Using LMR-240 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: [Waterproof IP68 4.3-10 Male \(Plug\) to SMA Male \(Plug\) Low Loss Cable Using LMR®-240 Coax with Times Microwave Components PE3C6912/WP](https://www.pasternack.com/waterproof-ip68-4.3-10-male-plug-to-sma-male-plug-low-loss-cable-using-lmr-240-pe3c6912-wp-p.aspx)

URL: <https://www.pasternack.com/waterproof-ip68-4.3-10-male-plug-to-sma-male-plug-low-loss-cable-using-lmr-240-pe3c6912-wp-p.aspx>

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PE3C6912/WP CAD Drawing

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