Waterproof IP68 4.3-10 Male (Plug) to N Male (Plug) Low Loss Cable Using LMR®-400 Coax with Times Microwave Components

PE3C7015/WP

Configuration

- Connector 1: 4.3-10 Male
- Connector 2: N Male
- Cable Type: LMR®-400
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket
- Silicone Connector Boot
- IP68 Rated

Applications

- General Purpose
- Laboratory Use

Description

The Pasternack PE3C7015/WP is a weatherproof low loss cable assembly that comes with 4.3-10 male connection with weatherproof boot on one end and type N male 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 0.405 inches diameter. The 4.3-10 male to type N male cable assembly PE3C7015/WP is built with LMR®-400 coax, which has a flexible design. This RF cable assembly with 0.5 inches diameter has copper clad aluminum as cable's inner conducting material and PE (F) dielectric type. The weatherproof boot low loss cable can operate at a temperature range of -40 to 85 degrees C. Additional dimensions, specifications, and CAD drawings for this PE3C7015/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 type N 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		85		%
RF Shielding	90			dB
Capacitance		23.9 [78.41]		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		1.39 [4.56]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3C7015/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.028	0.041	0.068	0.108	dB/ft	
			0.07	0.1	0.14	0.23	0.36	dB/m	
PE3C7015/WP-24	24 In	Insertion Loss (Typ.)	0.19	0.23	0.29	0.4	0.57	dB	0.831
PE3C7015/WP-36	36 In	Insertion Loss (Typ.)	0.21	0.26	0.33	0.47	0.67	dB	0.898
PE3C7015/WP-48	48 In	Insertion Loss (Typ.)	0.23	0.29	0.37	0.54	0.78	dB	0.965
PE3C7015/WP-60	60 In	Insertion Loss (Typ.)	0.25	0.32	0.41	0.6	0.89	dB	1.032

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*SQRT(FGHz)	dB
Loss due to Connector 2:	0.1	dB
Base Weight:	0.764	pounds
Additional Weight per Inch:	0.00558	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	.5 in [12.7 mm]
Weight	0.764 lbs [346.54 g]

Cable

Cable Type	LMR®-400
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE
Jacket Diameter	0.405 in [10.29 mm]
One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Male	N Male
Option		Weatherproof Boot
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Brass, Gold
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		150 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		150 µin minimum
Boot Material	Silicone	Silicone

Environmental Specifications

Operating Range Temperature	-40 to +85 deg C
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: **PE3C7015/WP - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C7015/WP — Base Number

Example: PE3C7015/WP-12 = 12 inches long cable
PE3C7015/WP-100cm = 100 cm long cable

Waterproof IP68 4.3-10 Male (Plug) to N Male (Plug) Low Loss Cable Using LMR®-400 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 N Male (Plug) Low Loss Cable Using LMR®-400 Coax with Times Microwave Components PE3C7015/WP

URL: https://www.pasternack.com/waterproof-ip68-4.3-10-male-plug-to-n-male-plug-low-loss-cable-using-lmr-400-pe3c7015-wp-p.aspx

PE3C7015/WP CAD Drawing

Waterproof IP68 4.3-10 Male (Plug) to N Male (Plug) Low Loss Cable
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