

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



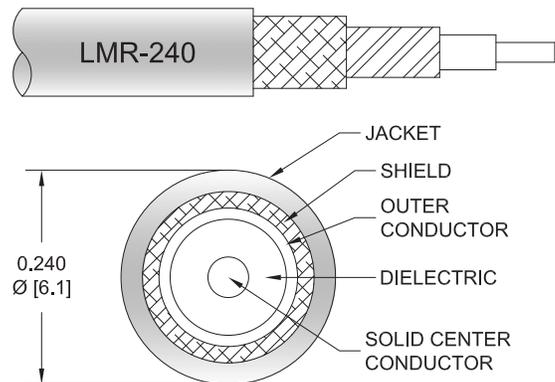
PE3C1982/WP

Configuration

- Connector 1: SMA Male
- Connector 2: N 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 PE3C1982/WP is a weatherproof low loss cable assembly that comes with SMA male connection with weatherproof boot on one end and type N 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 SMA male to type N male cable assembly PE3C1982/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 PE3C1982/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 SMA 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 | | 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) |
|----------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|-------|--------------|
| | | | 250 | 500 | 1000 | 2500 | 6000 | MHz | |
| PE3C1982/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 | |
| PE3C1982/WP-12 | 12 Inch | Insertion Loss (Typ.) | 0.24 | 0.26 | 0.28 | 0.33 | 0.41 | dB | 0.641 |
| PE3C1982/WP-24 | 24 Inch | Insertion Loss (Typ.) | 0.28 | 0.31 | 0.36 | 0.46 | 0.61 | dB | 0.674 |
| PE3C1982/WP-36 | 36 Inch | Insertion Loss (Typ.) | 0.32 | 0.37 | 0.44 | 0.59 | 0.82 | dB | 0.707 |
| PE3C1982/WP-48 | 48 Inch | Insertion Loss (Typ.) | 0.36 | 0.42 | 0.52 | 0.72 | 1.02 | dB | 0.74 |
| PE3C1982/WP-60 | 60 Inch | Insertion Loss (Typ.) | 0.4 | 0.48 | 0.6 | 0.85 | 1.22 | dB | 0.773 |

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 dB |
| Base Weight: | 0.641 pounds |
| Additional Weight per Inch: | 0.00275 pounds |

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.641 lbs [290.75 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] |

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Tensile Strength 80 lbs [36.29 Kg]

Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|----------------------------------|-------------------|
| Type | SMA Male | N Male |
| Option | Weatherproof Boot | Weatherproof Boot |
| Specification | MIL-STD-348 | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Specification | ASTM B488 | |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | Passivated Stainless Steel, Gold | |
| Body Material and Plating | Passivated Stainless Steel, Gold | Brass, Tri-Metal |
| Body Plating Specification | SAE-AMS-2700 | |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Brass, Tri-Metal |
| Coupling Nut Plating Specification | SAE-AMS-2700 | |
| Boot Material | 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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PE3C1982/WP

Typical Performance Data

How to Order

Part Number Configuration:

PE3C1982/WP - xx uu

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

Length

Base Number

Example: PE3C1982/WP-12 = 12 inches long cable
PE3C1982/WP-100cm = 100 cm long cable

Waterproof IP68 SMA Male (Plug) to N 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.

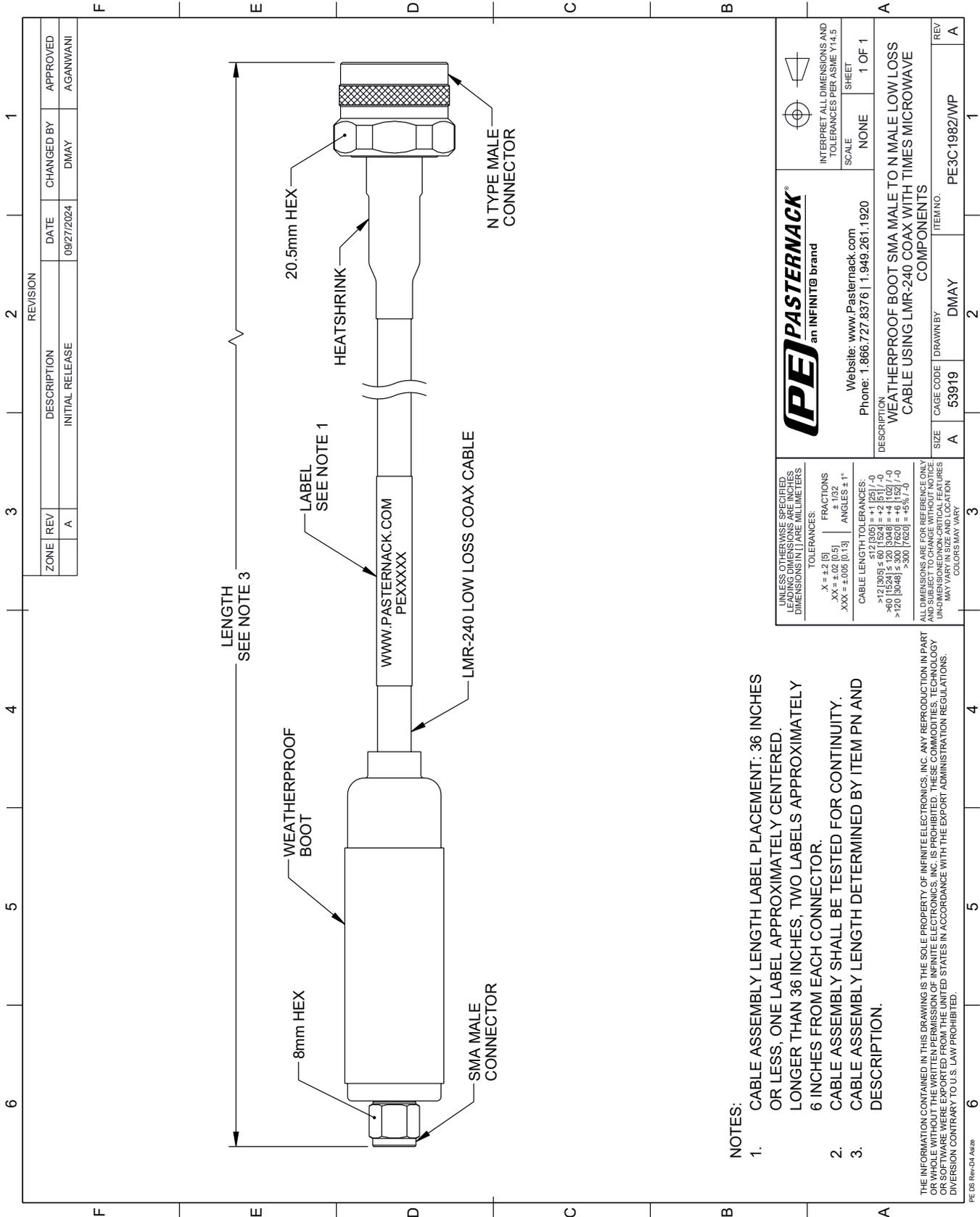
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Waterproof IP68 SMA Male \(Plug\) to N Male \(Plug\) Low Loss Cable Using LMR-240 Coax with Times Microwave Components PE3C1982/WP](#)

URL: <https://www.pasternack.com/waterproof-ip68-sma-male-plug-to-n-male-plug-low-loss-cable-using-lmr-240-pe3c1982-wp-p.aspx>

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PE3C1982/WP CAD Drawing

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- NOTES:
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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