

N Male to N Male Low Loss Cable 48 Inch Length Using PE-C240 Coax



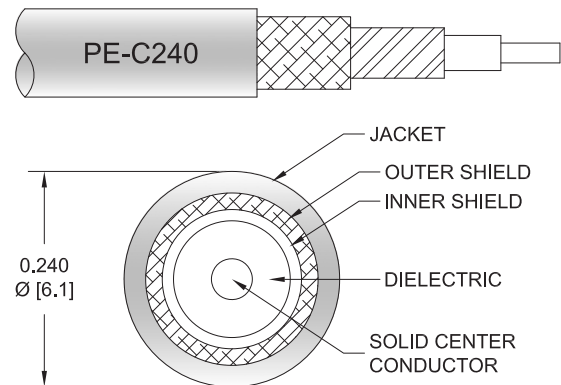
PE37941-48

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: PE-C240
- Coax Flex Type: Flexible

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 PE37941-48 type N male to type N male 48 inch cable using PE-C240 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 type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible PE-C240 coax. The PE37941-48 type N male to type N male cable assembly operates to 5.8 GHz. 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 |
| Capacitance | | 24.2 [79.4] | | pF/ft [pF/m] |

Specifications by Frequency

N Male to N Male Low Loss Cable 48 Inch Length Using PE-C240 Coax



PE37941-48

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|-------------|--------------------------|-----------------------|-----------|-------|-------|-------|------|-------|--------------|
| | | | Frequency | | 250 | 500 | 1000 | 2500 | |
| PE37941 | Custom Lengths Available | Insertion Loss (Typ.) | 0.042 | 0.062 | 0.089 | 0.145 | 0.23 | dB/ft | |
| | | | 0.14 | 0.21 | 0.3 | 0.48 | 0.76 | dB/m | |
| PE37941-36 | 36 inch | Insertion Loss (Typ.) | 0.33 | 0.39 | 0.47 | 0.64 | 0.89 | dB | 0.33 |
| PE37941-48 | 48 inch | Insertion Loss (Typ.) | 0.37 | 0.45 | 0.56 | 0.78 | 1.12 | dB | 0.36 |
| PE37941-60 | 60 inch | Insertion Loss (Typ.) | 0.41 | 0.51 | 0.65 | 0.93 | 1.35 | dB | 0.4 |
| PE37941-72 | 72 inch | Insertion Loss (Typ.) | 0.46 | 0.58 | 0.74 | 1.07 | 1.58 | dB | 0.44 |
| PE37941-120 | 120 inch | Insertion Loss (Typ.) | 0.62 | 0.82 | 1.09 | 1.65 | 2.5 | dB | 0.57 |

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: 0.0152 pounds
 Additional Weight per Inch: 0.00259 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.83 in [21.08 mm]
 Weight 0.36 lbs [163.29 g]

Cable

Cable Type PE-C240
 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, Black
 Jacket Diameter 0.24 in [6.1 mm]
 One Time Minimum Bend Radius 0.752 in [19.1 mm]
 Repeated Minimum Bend Radius 2.5 in [63.5 mm]

N Male to N Male Low Loss Cable 48 Inch Length Using PE-C240 Coax



PE37941-48

Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|------------------|------------------|
| Type | N Male | N Male |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Hex Size | 18 mm | 18 mm |
| Torque | 9 in-lbs 1.02 Nm | 9 in-lbs 1.02 Nm |

Environmental Specifications

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

N Male to N Male Low Loss Cable 48 Inch Length Using PE-C240 Coax

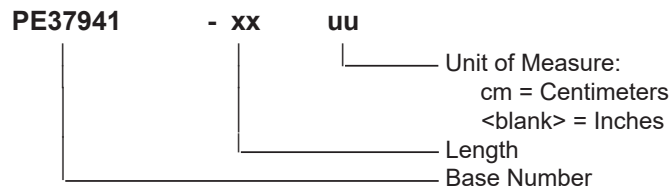


PE37941-48

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE37941-12 = 12 inches long cable
PE37941-100cm = 100 cm long cable

N Male to N Male Low Loss Cable 48 Inch Length Using PE-C240 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: [N Male to N Male Low Loss Cable 48 Inch Length Using PE-C240 Coax PE37941-48](#)

URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-48-inch-length-using-pe-c240-pe37941-48-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE37941-48 CAD Drawing

N Male to N Male Low Loss Cable 48 Inch Length Using PE-C240 Coax

