



7/16 DIN Male Right Angle to Snap-On QN Male  
Low Loss Cable Using LMR-240 Coax

**RF Cable Assemblies Technical Data Sheet**

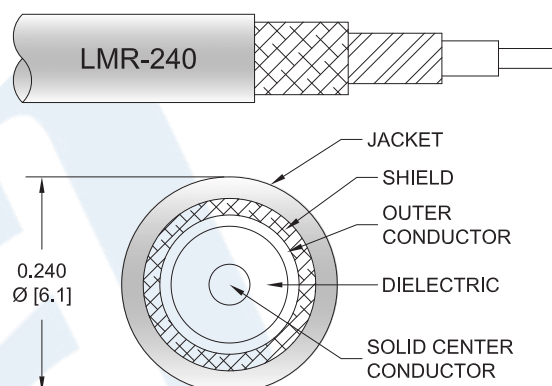
**PE3C7415**

**Configuration**

- Connector 1: 7/16 DIN Male Right Angle
- Connector 2: Snap-On QN Male
- 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 PE3C7415 7/16 DIN male right angle to QN male snap-on 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 7/16 DIN to QN cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3C7415 7/16 DIN male to QN male cable assembly operates to 5.8 GHz. The right angle 7/16 DIN interface on the LMR-240 cable allows for easier connections in tight spaces. 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Right Angle to Snap-On QN Male Low Loss Cable Using LMR-240 Coax PE3C7415](#)



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#### 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              |
| 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 (Typ.) | 0.039 | 0.055 | 0.079 | 0.129 | 0.204 | dB/ft |
|                       | 0.13  | 0.18  | 0.26  | 0.42  | 0.67  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the 7/16 DIN male connector and 0.048XSQRT (FGHz) dB for the QN male connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.264 lbs [119.75 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, Black           |
| Jacket Diameter                      | 0.24 in [6.1 mm]    |

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|                              |                        |
|------------------------------|------------------------|
| 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]      |

#### Connectors

| Description                       | Connector 1               | Connector 2      |
|-----------------------------------|---------------------------|------------------|
| Type                              | 7/16 DIN Male Right Angle | QN Male          |
| Impedance                         | 50 Ohms                   | 50 Ohms          |
| Connection Method                 |                           | Snap-On          |
| Mating Cycles                     |                           | 100              |
| Contact Material and Plating      | Beryllium Copper, Silver  | Brass, Silver    |
| Dielectric Type                   | PTFE                      | PTFE             |
| Body Material and Plating         | Brass, Tri-Metal          | Brass, Tri-Metal |
| Coupling Nut Material and Plating | Brass, Tri-Metal          | Brass, Tri-Metal |
| Hex Size                          | 1 1/4 inch                |                  |

#### Environmental Specifications

##### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
|-----------------|------------------|

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Right Angle to Snap-On QN Male Low Loss Cable Using LMR-240 Coax PE3C7415](#)



## 7/16 DIN Male Right Angle to Snap-On QN Male Low Loss Cable Using LMR-240 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C7415**

#### How to Order

Part Number Configuration:

**PE3C7415**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C7415-12 = 12 inches long cable  
PE3C7415-100cm = 100 cm long cable

7/16 DIN Male Right Angle to Snap-On QN Male Low Loss Cable 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: [7/16 DIN Male Right Angle to Snap-On QN Male Low Loss Cable Using LMR-240 Coax PE3C7415](https://www.pasternack.com/7-16-din-male-right-angle-to-snap-on-qn-male-low-loss-cable-using-lmr-240-pe3c7415-p.aspx)

URL: <https://www.pasternack.com/7-16-din-male-right-angle-to-snap-on-qn-male-low-loss-cable-using-lmr-240-pe3c7415-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.

# PE3C7415 CAD Drawing

7/16 DIN Male Right Angle to Snap-On QN Male Low Loss Cable Using LMR-240 Coax

