

## 75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



### EZ-240-FM-75-X

#### Configuration

- F Male Connector
- 75 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-240-75, LMR-240-75-DB, LMR-240-75-FR

#### Features

- Max. Operating Frequency 1 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies
- CATV

#### Description

Times Microwave's EZ-240-FM-75-X type F, F, Connector is part of our full line of RF components available for same-day shipping. Times Microwave's type F male connector operates up to a maximum frequency of 1 GHz and offers good VSWR of 1.3:1.

Times Microwave's 75 ohm type F male connector EZ-240-FM-75-X datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 1,000   | MHz   |
| VSWR                                 |         |         | 1.3:1   |       |
| Insertion Loss                       |         |         | 1       | dB    |
| Dielectric Withstanding Voltage (AC) |         |         | 750     | Vrms  |
| Insulation Resistance                | 5,000   |         |         | MOhms |
| Impedance                            |         | 75      |         | Ohms  |

Electrical Specification Notes:  
Insertion loss is  $=0.1 \times \sqrt{\text{FGHz}}$

#### Mechanical Specifications

##### Size

|                       |                        |
|-----------------------|------------------------|
| Length                | 0.56 in [14.22 mm]     |
| Width                 | 0.56 in [14.22 mm]     |
| Height                | 1.7 in [43.18 mm]      |
| Weight                | 0.016 lbs [7.26 g]     |
| Mating Cycles         | 500 Cycles             |
| Mating Torque         | 1.7 in-lbs [[0.19 Nm]] |
| Cable Retention Force | 150 lbs [68.04 kg]     |

75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



## EZ-240-FM-75-X

### Material Specifications

| Description  | Material         | Plating                     |
|--------------|------------------|-----------------------------|
| Contact      | Beryllium Copper | Gold<br>50 µin minimum      |
| Insulation   | PTFE             |                             |
| Body         | Brass            | Tri-Metal<br>80 µin minimum |
| Coupling Nut | Copper           | Tri-Metal<br>80 µin minimum |
| Gasket       | Silicone         |                             |
| Crimp Sleeve | Copper           | Tri-Metal<br>80 µin minimum |

### Environmental Specifications

#### Temperature

Operating Range

-40 to +125 deg C

Shock

MIL-STD-202G, Method 213, Cond I

Vibration

MIL-STD-202G, Method 204, Cond B

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

### Plotted and Other Data

Notes:

75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR 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: [75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR EZ-240-FM-75-X](#)

URL: <https://www.pasternack.com/f-male-lmr-240-75-connector-ez-240-fm-75-x-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.

75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR

3

## 75 Ohm N Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



### EZ-240-NMH-75-X

#### Configuration

- N Male Connector
- 75 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-240-75, LMR-240-75-DB, LMR-240-75-FR

#### Features

- Max. Operating Frequency 2.5 GHz
- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Times Microwave's EZ-240-NMH-75-X type N , N , Connector is part of our full line of RF components available for same-day shipping. Times Microwave's type N male connector operates up to a maximum frequency of 2.5 GHz.

Times Microwave's 75 ohm type N male connector EZ-240-NMH-75-X datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 2.5     | GHz   |
| Dielectric Withstanding Voltage (AC) |         |         | 2,500   | Vrms  |
| Impedance                            |         | 75      |         | Ohms  |

#### Mechanical Specifications

##### Size

|        |                    |
|--------|--------------------|
| Length | 0.87 in [22.1 mm]  |
| Width  | 0.87 in [22.1 mm]  |
| Height | 1.44 in [36.58 mm] |
| Weight | 0.08 lbs [36.29 g] |

#### Material Specifications

| Description   | Material         | Plating |
|---------------|------------------|---------|
| Contact       | Beryllium Copper | Gold    |
| Insulation    | PTFE             |         |
| Body          | Nickel           | Gold    |
| Gasket        | Silicone         |         |
| Crimp Sleeve  | Copper           | Gold    |
| Shrink Tubing | Polyolefin       |         |

75 Ohm N Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



## EZ-240-NMH-75-X

### Environmental Specifications

Temperature

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

### Plotted and Other Data

Notes:

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URL: <https://www.pasternack.com/n-male-lmr-240-75-connector-ez-240-nmh-75-x-p.aspx>

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## 75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with PE Jacket



### LMR-240-75-DB

#### Configuration

- Low Loss Flexible Cable

#### Features

- Max Operating Frequency of 2.5 GHz
- Phase Velocity 84% VoP
- Max Operating Temperature +85°C

#### Applications

- Laboratory Applications
- General Purpose RF Interconnect

#### Description

The LMR-240-75-DB part number from Pasternack is a low-loss coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 75 Ohm and a foam polyethylene dielectric. Our LMR-240-75-DB coax cable is constructed with a 0.24-inch jacket made of polyethylene. This RF coaxial cable is ideal for laboratory applications and general purpose RF interconnect applications. This black-colored low-loss coax cable has a nominal capacitance of 16.10 pF/Ft.

This LMR-240-75-DB flexible RF cable has a minimum RF shielding of 90 dB. Our coax cable from Pasternack has a maximum frequency of 2.5 GHz. Additional specifications for this LMR-240-75-DB RF coaxial cable are on our downloadable PDF datasheet above. This low-loss RF cable has a one-time minimum bend radius of 0.75 inches and a repeat minimum bend radius of 2.5 inches.

Our LMR-240-75-DB coax cable can operate at temperatures ranging from -40 to 85 degrees C. Our coax cable has a typical loss/attenuation of 1.3, 1.6, 2.9, 3.5, 5, 7.2, 9.4, 10.3, 10.9, and 12.3 dB/100ft at frequencies of 30 MHz, 50 MHz, 150 MHz, 220 MHz, 450 MHz, 900 MHz, 1.5 GHz, 1.8 GHz, 2 GHz, and 2.5 GHz, respectively. The LMR-240-75-DB flexible RF cable has a copper center conductor.

Pasternack LMR-240-75-DB low-loss coax cables are part of our RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using LMR-240-75-DB, or other coax can be built and shipped the same business day as well.

#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units        |
|-------------------------------|---------|--------------|---------|--------------|
| Frequency Range               | DC      |              | 2.5     | GHz          |
| Impedance                     |         | 75           |         | Ohms         |
| Velocity of Propagation       |         | 84           |         | %            |
| Shielding Effectiveness       | 90      |              |         | dB           |
| Operating Voltage (DC)        |         |              | 1,500   | Vdc          |
| Jacket Spark                  |         |              | 5,000   | Vrms         |
| Inner Conductor DC Resistance |         |              | 10.1    | Ohms/1000ft  |
| Outer Conductor DC Resistance |         |              | 3.89    | Ohms/1000ft  |
| Nominal Capacitance           |         | 16.1 [52.82] |         | pF/ft [pF/m] |
| Nominal Inductance            |         | 0.091 [0.3]  |         | uH/ft [uH/m] |

## 75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with PE Jacket



### LMR-240-75-DB

#### Electrical Specifications

| Description        | Minimum | Typical | Maximum | Units  |
|--------------------|---------|---------|---------|--------|
| Input Power (Peak) |         |         | 5.6     | kWatts |

#### Performance by Frequency Band

| Description      | F1   | F2   | F3   | F4    | F5   | Units    |
|------------------|------|------|------|-------|------|----------|
| Frequency        | 30   | 50   | 150  | 220   | 450  | MHz      |
| Attenuation, Typ | 1.3  | 1.6  | 2.9  | 3.5   | 5    | dB/100ft |
|                  | 4.27 | 5.25 | 9.51 | 11.48 | 16.4 | dB/100m  |

| Description      | F6    | F7    | F8    | F9    | F10   | Units    |
|------------------|-------|-------|-------|-------|-------|----------|
| Frequency        | 0.9   | 1.5   | 1.8   | 2     | 2.5   | GHz      |
| Attenuation, Typ | 7.2   | 9.4   | 10.3  | 10.9  | 12.3  | dB/100ft |
|                  | 23.62 | 30.84 | 33.79 | 35.76 | 40.35 | dB/100m  |

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.24 in [6.1 mm]         |
| Weight                          | 0.035 lbs/ft [0.05 kg/m] |
| Min. Bend Radius (Installation) | 0.75 in [19.05 mm]       |
| Min. Bend Radius (Repeated)     | 2.5 in [63.5 mm]         |
| Bending Moment                  | 0.25 lbs-ft [0.34 N-m]   |
| Tensile Strength                | 80 lbs [36.29 kg]        |
| Flat Plate Crush                | 20 lbs/in [0.36 kg/mm]   |

#### Construction Specifications

| Description     | Material and Plating | Diameter           |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, Strand       | 0.032 in [0.81 mm] |
| Dielectric      | Foam PE              | 0.15 in [3.81 mm]  |
| Outer Conductor | Aluminum Tape        | 0 in [0 mm]        |
| Jacket          | PE                   | 0.24 in [6.1 mm]   |

#### Environmental Specifications

|                    |                  |
|--------------------|------------------|
| <b>Temperature</b> |                  |
| Operating Range    | -40 to +85 deg C |
| Installation Range | -40 to +85 deg C |
| Storage Range      | -70 to +85 deg C |

## 75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with PE Jacket



### LMR-240-75-DB

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

#### Plotted and Other Data

Notes:

75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with PE Jacket 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.

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URL: <https://www.pasternack.com/75-ohm-low-loss-flexible-lmr24075db-pe-jacket-lmr-240-75-db-p.aspx>

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LMR-240-75-DB CAD Drawing
75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with PE Jacket

