



N Male Right Angle Connector Crimp/Non-Solder  
Contact Attachment for LMR-240, LMR-240-DB,  
LMR-240-UF, LMR-240-FR, RG8X, PE-C240

## RF Connectors Technical Data Sheet



**EZ-240-NMH-RA-X**

### Times Microwave Systems Connector Specification

#### Configuration

- N Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240

#### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.35:1
- Gold Plated Beryllium Bronze Contact
- 50  $\mu$ m minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

EZ-240-NMH-RA-X N male right angle coaxial connector has an interface type of N male LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, and PE-C240 and a 50 Ohms impedance. Pasternack's N male connector uses crimp/non-solder contact as an attachment method. Our male N right angle coaxial connector provides a maximum frequency of 6 GHz.

The Pasternack right angle N male coaxial connector has a PTFE dielectric type and a VSWR of 1.35:1. Pasternack's N coaxial connector has a brass body with tri-metal plating. Our EZ-240-NMH-RA-X N right angle connector uses a gold plated beryllium bronze contact. Additional RF connector specs and dimensions for this component can be found on its PDF specification datasheet and CAD drawings above.

The radio frequency connector is made from brass material and has a contact life of 500 cycles or more. Our high-quality EZ-240-NMH-RA-X features an 80  $\mu$ m minimum body plating specification. The Pasternack EZ-240-NMH-RA-X N connector operates at a temperature range of -55 to 125 deg C.

This Pasternack right angle male N connector will ship the same business day as purchased. Our N right angle male connector is part of over 40,000 RF, microwave, and millimeter wave components in stock for local, domestic, and international shipment. For further information on similar products, our expert technical support and trained sales team can get you the ideal RF connector as per your requirements.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 6       | GHz   |
| VSWR                                 |         |         | 1.35:1  |       |
| Insertion Loss                       |         |         | 0.24    | dB    |
| Impedance                            |         | 50      |         | Ohms  |
| Dielectric Withstanding Voltage (DC) |         |         | 1,000   | Vdc   |
| Insulation Resistance                | 5,000   |         |         | MOhms |

Electrical Specification Notes:  
Insertion Loss is  $0.1 \times \sqrt{\text{fGHz}}$  dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 EZ-240-NMH-RA-X](#)



N Male Right Angle Connector Crimp/Non-Solder  
Contact Attachment for LMR-240, LMR-240-DB,  
LMR-240-UF, LMR-240-FR, RG8X, PE-C240

## RF Connectors Technical Data Sheet



**EZ-240-NMH-RA-X**

### Mechanical Specifications

|                       |                      |
|-----------------------|----------------------|
| <b>Size</b>           |                      |
| Length                | 1.12 in [28.52 mm]   |
| Width                 | 0.81 in [20.57 mm]   |
| Height                | 1.23 in [31.32 mm]   |
| Weight                | 0.10 lbs [45.36 g]   |
| Mating Cycles         | 500 Cycles           |
| Mating Torque         | 1.7 in-lbs [0.19 Nm] |
| Cable Retention Force | 300 lbs 136.08 kg    |

### Material Specifications

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

### Environmental Specifications

|                    |                                |
|--------------------|--------------------------------|
| <b>Temperature</b> |                                |
| Operating Range    | -55 to 125 deg C               |
| Shock              | MIL-STD 202G, Meth.213, Cond I |
| Vibration          | MIL-STD 202G, Meth.204, Cond.B |
| Thermal Shock      | MIL-STD 202G, Meth.107, Cond.B |

**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: [N Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 EZ-240-NMH-RA-X](#)



N Male Right Angle Connector Crimp/Non-Solder  
Contact Attachment for LMR-240, LMR-240-DB,  
LMR-240-UF, LMR-240-FR, RG8X, PE-C240

## RF Connectors Technical Data Sheet



**EZ-240-NMH-RA-X**

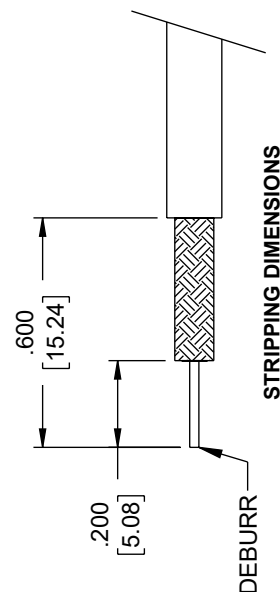
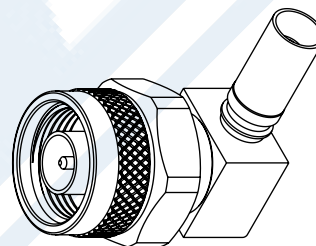
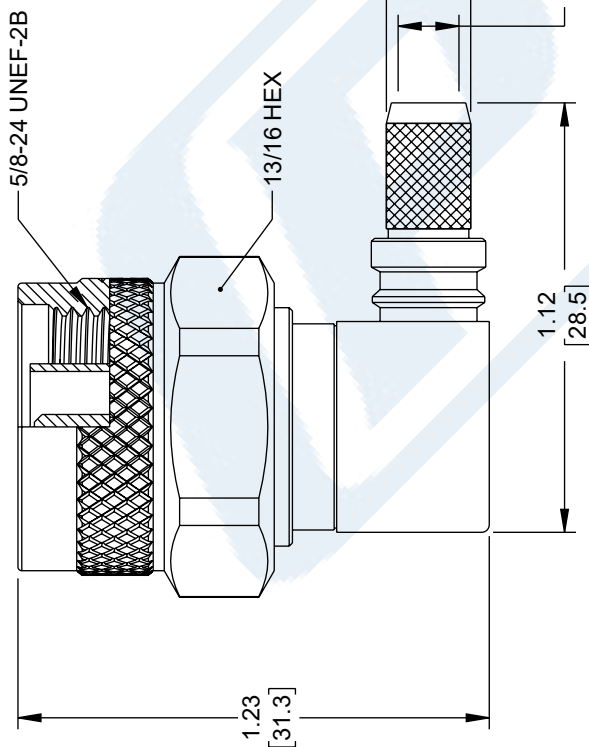
N Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/n-male-lmr-240-lmr-240-db-connector-ez-240-nmh-ra-x-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.

| REVISION |     |             |           |            |
|----------|-----|-------------|-----------|------------|
| ZONE     | REV | DESCRIPTION | DATE      | CHANGED BY |
|          | B   | ECO-12894   | 11/6/2023 | KDANG      |
|          |     |             |           | AGANWANI   |



NOTES:

1. CABLE ATTACHMENT:
  - OUTER: CRIMP.
  - INNER CONTACT: CAPTIVE.
2. CRIMP SIZE REQUIRED:
  - FERRULE: .255 [6.48] HEX. C

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LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN ( ) ARE MILLIMETERS

**TOLERANCES:**

|                | FRACTIONS | ANGLES        |
|----------------|-----------|---------------|
| $X \pm 2$      | [.5]      | $\pm 1/32$    |
| $XX \pm .02$   | [.5]      |               |
| $XXX \pm .005$ | [.13]     | $\pm 1^\circ$ |

CABLE LENGTH TOLERANCES:

|                                  |                      |
|----------------------------------|----------------------|
| $\leq 12$ [305]                  | $\leq +1$ [25] / -0  |
| $> 12$ [305] $\leq 60$ [1524]    | $\leq +2$ [51] / -0  |
| $> 60$ [1524] $\leq 120$ [3048]  | $\leq +4$ [102] / -0 |
| $> 120$ [3048] $\leq 300$ [7620] | $\leq +6$ [152] / -0 |
| $> 300$ [7620]                   | $\leq +5\%$ / -0     |

ALL DIMENSIONS ARE FOR REFERENCE ONLY



2019 RELEASE UNDER E.O. 14176

Website: [www.Pasternack.com](http://www.Pasternack.com)

Phone: 1.866.727.8376 | 1.949.261.1920

| DESCRIPTION |
|-------------|
|-------------|

N-Male (plug) crimp right angle (non-solder pin) hex/knurl nut, no braid trim

|      |           |          |                 |     |
|------|-----------|----------|-----------------|-----|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO.        | REV |
| A    | 53919     | KDANG    | EZ-240-NMH-RA-X | B   |



N Female Connector Crimp/Non-Solder Contact  
Attachment for LMR-240, LMR-240-DB, LMR-  
240-UF, LMR-240-FR, RG8X, PE-C240

## RF Connectors Technical Data Sheet



**EZ-240-NF-X**

### Times Microwave Systems Connector Specification

#### Configuration

- N Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240

#### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold over nickel Plated Phosphor Bronze Contact
- 50  $\mu$ m minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

EZ-240-NF-X BNC female coaxial connector has an interface type of BNC female LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, and PE-C240 and a 50 Ohms impedance. Pasternack's BNC female connector uses crimp/non-solder contact as an attachment method. Our female BNC coaxial connector provides a maximum frequency of 6 GHz.

The Pasternack BNC female coaxial connector has a teflon dielectric type and a VSWR of 1.3:1. Pasternack's BNC coaxial connector has a brass body with tri-metal plating. Our EZ-240-NF-X BNC connector uses a gold over nickel-plated phosphor bronze contact. Additional RF connector specs and dimensions for this component can be found on its PDF specification datasheet and CAD drawings above.

The radio frequency connector is made from brass material and has a contact life of 500 cycles or more. Our high-quality EZ-240-NF-X features an 80  $\mu$ m minimum body plating specification. The Pasternack EZ-240-NF-X BNC connector operates at a temperature range of -55 to 155 deg C.

This Pasternack female BNC connector will ship the same business day as purchased. Our BNC female connector is part of over 40,000 RF, microwave, and millimeter wave components in stock for local, domestic, and international shipment. For further information on similar products, our expert technical support and trained sales team can get you the ideal RF connector as per your requirements.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 6       | GHz   |
| VSWR                                 |         |         | 1.3:1   |       |
| Impedance                            |         | 50      |         | Ohms  |
| Dielectric Withstanding Voltage (DC) |         |         | 1,000   | Vdc   |
| Insulation Resistance                | 5,000   |         |         | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 EZ-240-NF-X](#)



N Female Connector Crimp/Non-Solder Contact  
Attachment for LMR-240, LMR-240-DB, LMR-  
240-UF, LMR-240-FR, RG8X, PE-C240

**RF Connectors**  
**Technical Data Sheet**

**Mechanical Specifications**

**Size**

|               |                    |
|---------------|--------------------|
| Length        | 1.40 in [35.43 mm] |
| Width         | 0.62 in [15.80 mm] |
| Height        | 0.62 in [15.80 mm] |
| Weight        | 0.10 lbs [45.36 g] |
| Mating Cycles | 500 Cycles         |

**Material Specifications**

| Description  | Material        | Plating                            |
|--------------|-----------------|------------------------------------|
| Contact      | Phosphor Bronze | Gold over nickel<br>50 µin minimum |
| Insulation   | Teflon          |                                    |
| Body         | Brass           | Tri-Metal<br>80 µin minimum        |
| Crimp Sleeve | Brass           | Tri-Metal<br>80 µin minimum        |

**Environmental Specifications**

**Temperature**

|                 |                                |
|-----------------|--------------------------------|
| Operating Range | -55 to 155 deg C               |
| Shock           | MIL-STD 202G, Meth.213, Cond I |
| Vibration       | MIL-STD 202G, Meth.204, Cond.B |
| Thermal Shock   | MIL-STD 202G, Meth.107, Cond.B |

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

**Plotted and Other Data**

Notes:

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N Female Connector Crimp/Non-Solder Contact  
Attachment for LMR-240, LMR-240-DB, LMR-  
240-UF, LMR-240-FR, RG8X, PE-C240

**RF Connectors**  
**Technical Data Sheet**



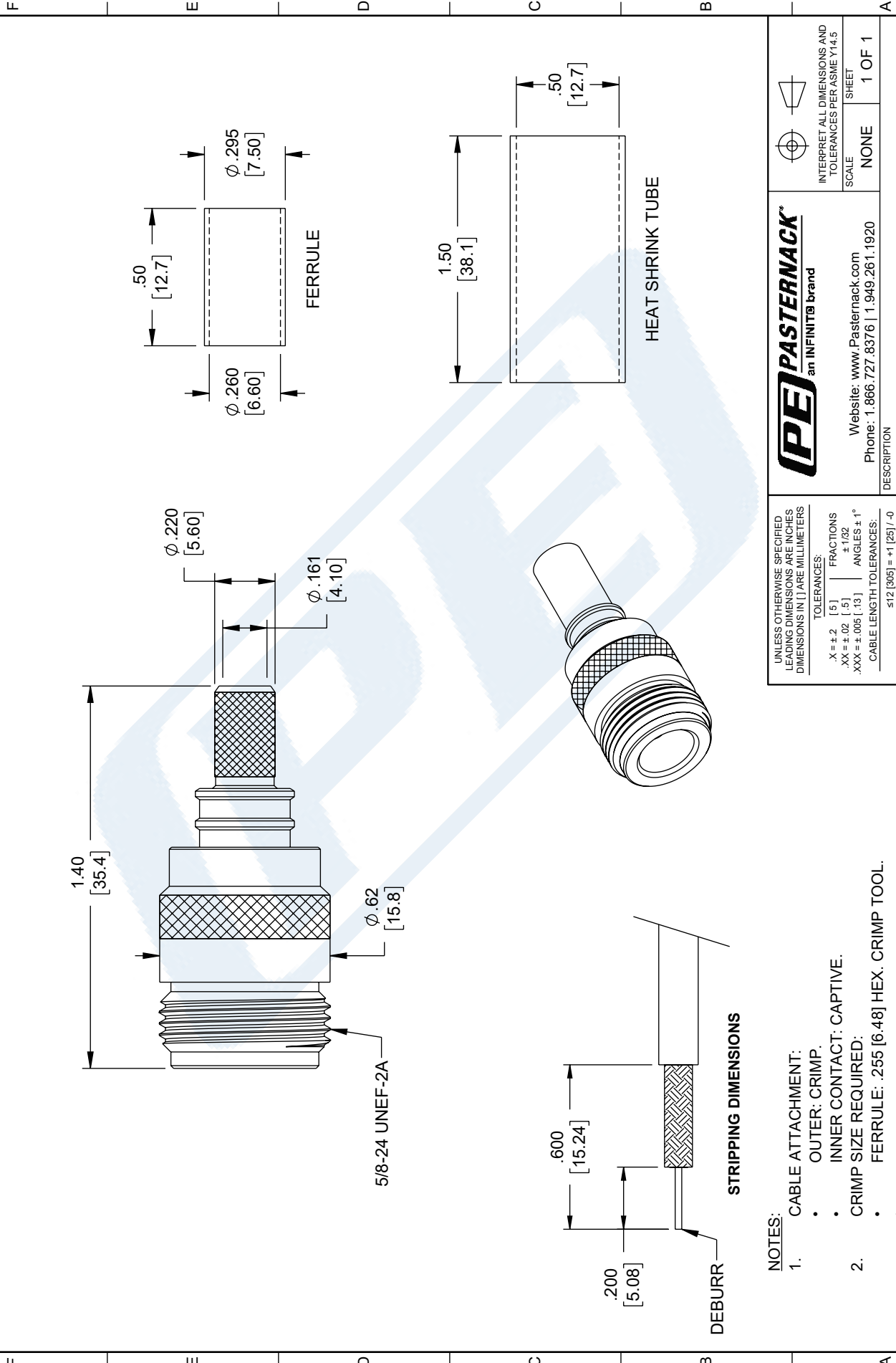
**EZ-240-NF-X**

N Female Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 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/n-female-lmr-240-lmr-240-db-connector-ez-240-nf-x-p.aspx>

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**NOTES:**

1. CABLE ATTACHMENT:  
• OUTER: CRIMP.  
• INNER CONTACT: CAPTIVE.
2. CRIMP SIZE REQUIRED:  
• FERRULE: .255 [6.48] HEX. CRIMP TOOL.

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LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

| TOLERANCES:              |             |
|--------------------------|-------------|
| .XX = ± .02              | [ .5 ]      |
| .XXX = ± .005            | [ .13 ]     |
| CABLE LENGTH TOLERANCES: |             |
| ≤ 12 [305]               | ± .125 [ -0 |
| > 12 [305]               | ± .125 [ -0 |
| > 60 [1524]              | ± .125 [ -0 |
| > 120 [3048]             | ± .125 [ -0 |
| > 300 [7620]             | ± .125 [ -0 |
| > 300 [7620]             | ± .125 [ -0 |

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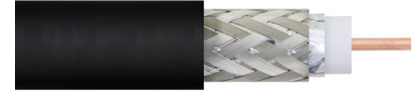
Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION  
N-Female (jack) crimp connector (non-solder pin), no braid trim

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5  
SCALE  
NONE  
SHEET  
1 OF 1

| SIZE | CAGE CODE | DRAWN BY | ITEM NO.    | REV |
|------|-----------|----------|-------------|-----|
| A    | 53919     | KDANG    | EZ-240-NF-X | B   |

## Low Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-240



## Times Microwave Systems Connector Specification

### Configuration

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

### Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 84% VoP

### Applications

- General Purpose RF Interconnect
- Laboratory Applications

### Description

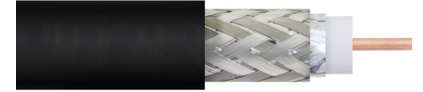
LMR-240 part number from Pasternack is a LMR-240 coax cable that is flexible. Pasternack LMR-240 flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-240 coax is constructed with a 0.24 jacket made of PE. LMR-240 coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-240 coax cable has an attenuation at 1 GHz of 8 dB.

Pasternack LMR-240 coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-240 cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-240 or other coax can be built and shipped same day as well.

### Electrical Specifications

| Description                          | Minimum | Typical     | Maximum | Units        |
|--------------------------------------|---------|-------------|---------|--------------|
| Frequency Range                      | DC      |             | 8       | GHz          |
| Cutoff Frequency                     |         | 31          |         | GHz          |
| Impedance                            |         | 50          |         | Ohms         |
| Velocity of Propagation              |         | 84          |         | %            |
| Time Delay                           |         | 1.21 [3.97] |         | ns/ft [ns/m] |
| Shielding Effectiveness              | 90      |             |         | dB           |
| Dielectric Withstanding Voltage (DC) |         |             | 1,500   | Vdc          |
| Jacket Spark                         |         |             | 5,000   | Vrms         |
| Inner Conductor DC Resistance        |         |             | 3.2     | Ohms/1000ft  |
| Outer Conductor DC Resistance        |         |             | 3.89    | Ohms/1000ft  |
| Nominal Capacitance                  |         | 24.2 [79.4] |         | pF/ft [pF/m] |
| Nominal Inductance                   |         | 0.06 [0.2]  |         | uH/ft [uH/m] |
| Input Power (Peak)                   |         |             | 5.6     | kWatts       |

## Low Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-240

#### Performance by Frequency Band

| Description           | F1    | F2   | F3    | F4    | F5    | Units    |
|-----------------------|-------|------|-------|-------|-------|----------|
| Frequency             | 50    | 150  | 220   | 450   | 900   | MHz      |
| Attenuation, Typ      | 1.7   | 3    | 3.7   | 5.3   | 7.6   | dB/100ft |
|                       | 5.58  | 9.84 | 12.14 | 17.39 | 24.93 | dB/100m  |
| Input Power (CW), Max | 1,150 | 660  | 540   | 380   | 260   | Watts    |

| Description           | F6    | F7    | F8    | F9    | F10   | Units    |
|-----------------------|-------|-------|-------|-------|-------|----------|
| Frequency             | 1.5   | 1.8   | 2     | 2.5   | 5.8   | GHz      |
| Attenuation, Typ      | 9.9   | 10.9  | 11.5  | 12.9  | 20.4  | dB/100ft |
|                       | 32.48 | 35.76 | 37.73 | 42.32 | 66.93 | dB/100m  |
| Input Power (CW), Max | 200   | 180   | 170   | 150   | 100   | Watts    |

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.24 in [6.1 mm]         |
| Weight                          | 0.033 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, 1 Strand     | 0.056 in [1.42 mm] |
| Conductor Type  | Solid                |                    |
| Dielectric      | PE (F)               | 0.15 in [3.81 mm]  |
| First Shield    | Aluminum Tape        |                    |
| Second Shield   | Tinned Copper Braid  |                    |
| Jacket          | PE, Black            | 0.24 in [6.1 mm]   |

#### Environmental Specifications

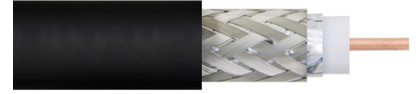
|                    |                 |
|--------------------|-----------------|
| <b>Temperature</b> |                 |
| Operating Range    | -40 to 85 deg C |
| Storage Range      | -70 to 85 deg C |

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

#### Plotted and Other Data

Notes:

## Low Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-240

Low Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket LMR-240](#)

URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr240-pe-jacket-double-shielded-black-lmr-240-p.aspx>

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## Low Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket

