PASTERNACK®
THE ENGINEER'S RF SOURCE



# 2.4mm Male to 2.4mm Male Test Cable 48 Inch Length Using PE-P102 Coax, RoHS

## TECHNICAL DATA SHEET PE373-48

### Configuration

| | |
|---|---|
| Connector 1 | 2.4mm Male |
| Connector 2 | 2.4mm Male |
| Cable Type | PE-P102 |

### Electrical Specifications

| | |
|---|---|
| Frequency Range | DC to 50 GHz |
| Impedance | 50 Ohms |
| Maximum VSWR | 1.4:1 |
| Velocity of Propagation | 76 % |
| RF Shielding | 90 dB |
| Peak Power | 550 Watts |

#### Typical Performance by Frequency

**Frequency 1**

| | |
|---|---|
| Frequency | 6 GHz |
| VSWR | 1.25:1 |
| Insertion Loss, | 3 dB |
| Power Handling, Watts | 160 |

**Frequency 2**

| | |
|---|---|
| Frequency | 12 GHz |
| VSWR | 1.25:1 |
| Insertion Loss | 4.32 dB |
| Power Handling | 110 Watts |

**Frequency 3**

| | |
|---|---|
| Frequency | 18 GHz |
| VSWR | 1.25:1 |
| Insertion Loss | 5.44 dB |
| Power Handling | 89 Watts |

**Frequency 4**

| | |
|---|---|
| Frequency | 26.5 GHz |
| VSWR | 1.4:1 |
| Insertion Loss | 6.68 dB |
| Power Handling | 73 Watts |

**Frequency 5**

| | |
|---|---|
| Frequency | 40 GHz |
| VSWR | 1.4:1 |
| Insertion Loss | 8.52 dB |
| Power Handling | 58 Watts |

**Frequency 6**

| | |
|---|---|
| Frequency | 50 GHz |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.4mm Male to 2.4mm Male Test Cable 48 Inch Length Using PE-P102 Coax, RoHS PE373-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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| | |
|---|---|
| VSWR | 1.4:1 |
| Insertion Loss | 9.8 dB |
| Power Handling | 52 Watts |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 48 in [121.92 cm] |
| Diameter | 0.375 in [9.53 mm] |
| Cable Color | Gray |
| One Time Minimum Bend Radius | 0.32 in [8.13 mm] |
| Repeated Minimum Bend Radius | 0.96 in [24.38 mm] |

**Cable**

| | |
|---|---|
| Cable Type | PE-P102 |
| Inner Conductor Type | Stranded |
| Cable Inner Conductor | Copper, Silver |
| No of Shields | 3 |
| Dielectric Type | PTFE |
| Jacket Material | ETFE |
| Jacket Diameter | 0.102 in [2.59 mm] |

**Connector 1**

| | |
|---|---|
| Type | 2.4mm Male |
| Configuration | Straight |
| Inner Conductor Material and Plating | Beryllium Copper, Gold |
| Inner Conductor Plating Specification | ASTM-B488 50µ In. Minimum |
| Coupling Nut Material and Plating | Passivated Stainless Steel |
| Coupling Nut Plating Specification | SAE-AMS-2700 |
| Hex Size | 5/16 Inch |
| Torque | 8 in-lbs [0.9 Nm] |
| Body Material and Plating | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 |
| Dielectric Type | PPO |

**Connector 2**

| | |
|---|---|
| Type | 2.4mm Male |
| Configuration | Straight |
| Inner Conductor Material and Plating | Beryllium Copper, Gold |
| Inner Conductor Plating Specification | ASTM-B488 50µ In. Minimum |
| Coupling Nut Material and Plating | Passivated Stainless Steel |
| Coupling Nut Plating Specification | SAE-AMS-2700 |
| Hex Size | 5/16 Inch |
| Torque | 8 in-lbs [0.9 Nm] |
| Body Material and Plating | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 |
| Dielectric Type | PPO |

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**Compliance Certifications** (visit www.Pasternack.com for current document)

| | |
|---|---|
| RoHS Compliant | Yes |

Notes:

- Values at +25 °C, sea level

2.4mm Male to 2.4mm Male Test Cable 48 Inch Length Using PE-P102 Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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: 2.4mm Male to 2.4mm Male Test Cable 48 Inch Length Using PE-P102 Coax, RoHS PE373-48

URL: http://www.pasternack.com/2.4mm-male-2.4mm-male-pe-p102-cable-assembly-pe373-48-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.

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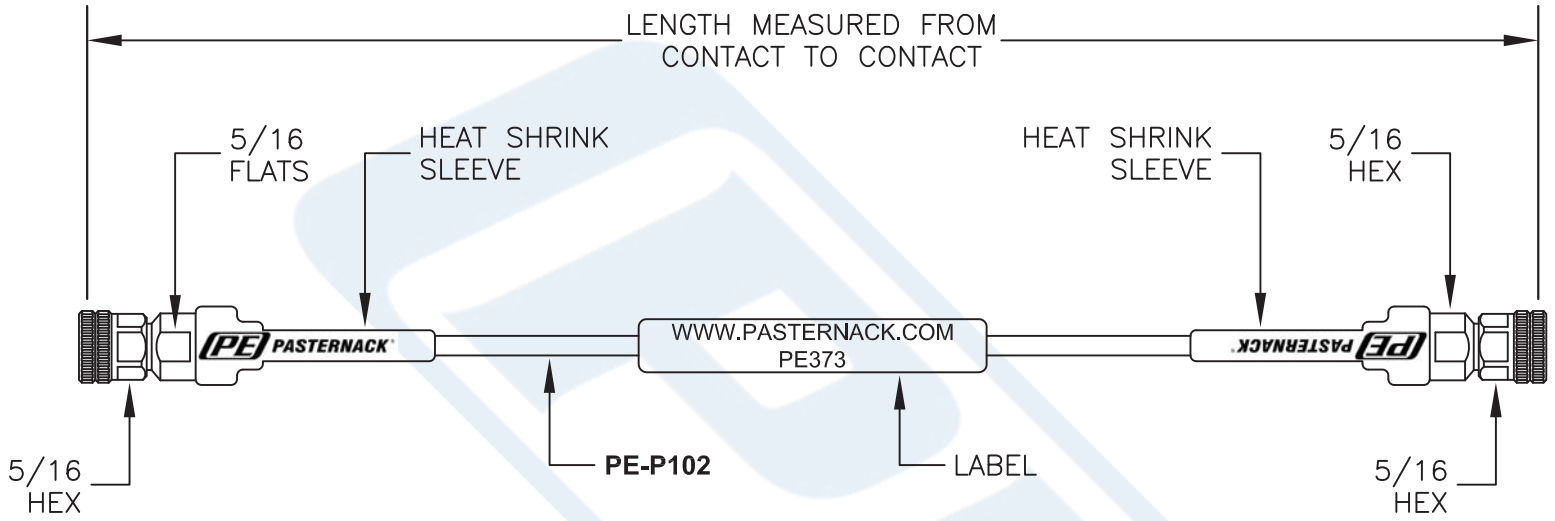
# PE373-48 CAD Drawing

2.4mm Male to 2.4mm Male Test Cable 48 Inch Length Using PE-P102 Coax, RoHS




NOTE:
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

| How To Order | | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|---|---|---|---|---|---|
| Part Number Configuration<br>PE3 [zzz] - [xx] [uu]<br>00 - 99999<br>CM = Centimeters<br>< Blank > = Inches<br>Length | Examples<br>PE3000-100<br>PE3000-100CM | -12 | 12" | -25CM | 25Cm |
| | | -24 | 24" | -50CM | 50Cm |
| | | -36 | 36" | -75CM | 75Cm |
| | | -48 | 48" | -100CM | 100Cm |
| | | -60 | 60" | -125CM | 125Cm |
| | | -xx | Custom Length | -xxCM | Custom Length |

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DWG TITLE
**PE373**

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

| FSCM NO. 53919 | CAD FILE 091713 | SCALE N/A | SIZE A | 2233 |
|---|---|---|---|---|