

1.0/2.3 Plug to 1.0/2.3 Plug Cable Using RG174 Coax



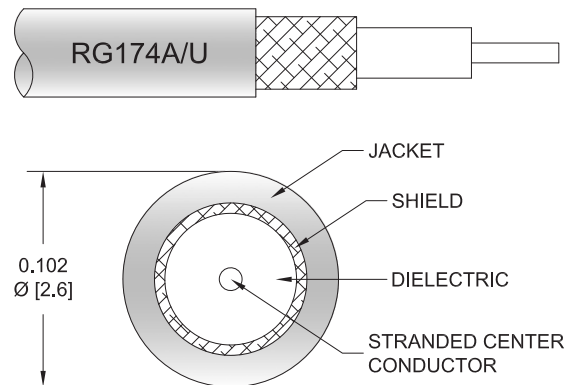
PE3W02074

Configuration

- Connector 1: 1.0/2.3 Plug
- Connector 2: 1.0/2.3 Plug
- Cable Type: RG174
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02074 1.0/2.3 plug to 1.0/2.3 plug cable using RG174 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 1.0/2.3 to 1.0/2.3 cable assembly has a plug to plug gender configuration with 50 ohm flexible RG174 coax. The PE3W02074 1.0/2.3 plug to 1.0/2.3 plug cable assembly operates to 1 GHz.

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 | | 1,000 | MHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 66 | | % |
| Capacitance | | 31.1 [102.03] | | pF/ft [pF/m] |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|-----------|------|------|------|-------|--------------|
| | | | Frequency | | | | MHz | |
| PE3W02074 | Custom Lengths Available | Insertion Loss (Typ.) | 0.08 | 0.14 | 0.21 | 0.32 | dB/ft | |
| | | | 0.28 | 0.45 | 0.7 | 1.05 | dB/m | |
| PE3W02074-12 | 12 inch | Insertion Loss (Typ.) | 0.29 | 0.34 | 0.42 | 0.52 | dB | 0.039 |
| PE3W02074-24 | 24 inch | Insertion Loss (Typ.) | 0.37 | 0.48 | 0.63 | 0.84 | dB | 0.048 |
| PE3W02074-36 | 36 inch | Insertion Loss (Typ.) | 0.46 | 0.62 | 0.84 | 1.16 | dB | 0.057 |
| PE3W02074-48 | 48 inch | Insertion Loss (Typ.) | 0.54 | 0.75 | 1.05 | 1.48 | dB | 0.066 |
| PE3W02074-72 | 72 inch | Insertion Loss (Typ.) | 0.71 | 1.03 | 1.47 | 2.12 | dB | 0.084 |

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: | 0.039 pounds |
| Additional Weight per Inch: | 0.00075 pounds |

Mechanical Specifications

Cable Assembly

Weight 0.039 lbs [17.69 g]

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | RG174 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PE |
| Number of Shields | 1 |
| Shield Layer 1 | Tinned Copper Braid |
| Jacket Material | PVC, Black |
| Jacket Diameter | 0.11 in [2.79 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|-----------------|-----------------|
| Type | 1.0/2.3 Plug | 1.0/2.3 Plug |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 µin minimum | 30 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 µin minimum | 100 µin minimum |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Plating Specification | 100 µin minimum | 100 µin minimum |

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

Plotted and Other Data

Notes:

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PE3W02074

Typical Performance Data

How to Order

Part Number Configuration:

PE3W02074

- xx

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W02074-12 = 12 inches long cable
PE3W02074-100cm = 100 cm long cable

1.0/2.3 Plug to 1.0/2.3 Plug Cable Using RG174 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.

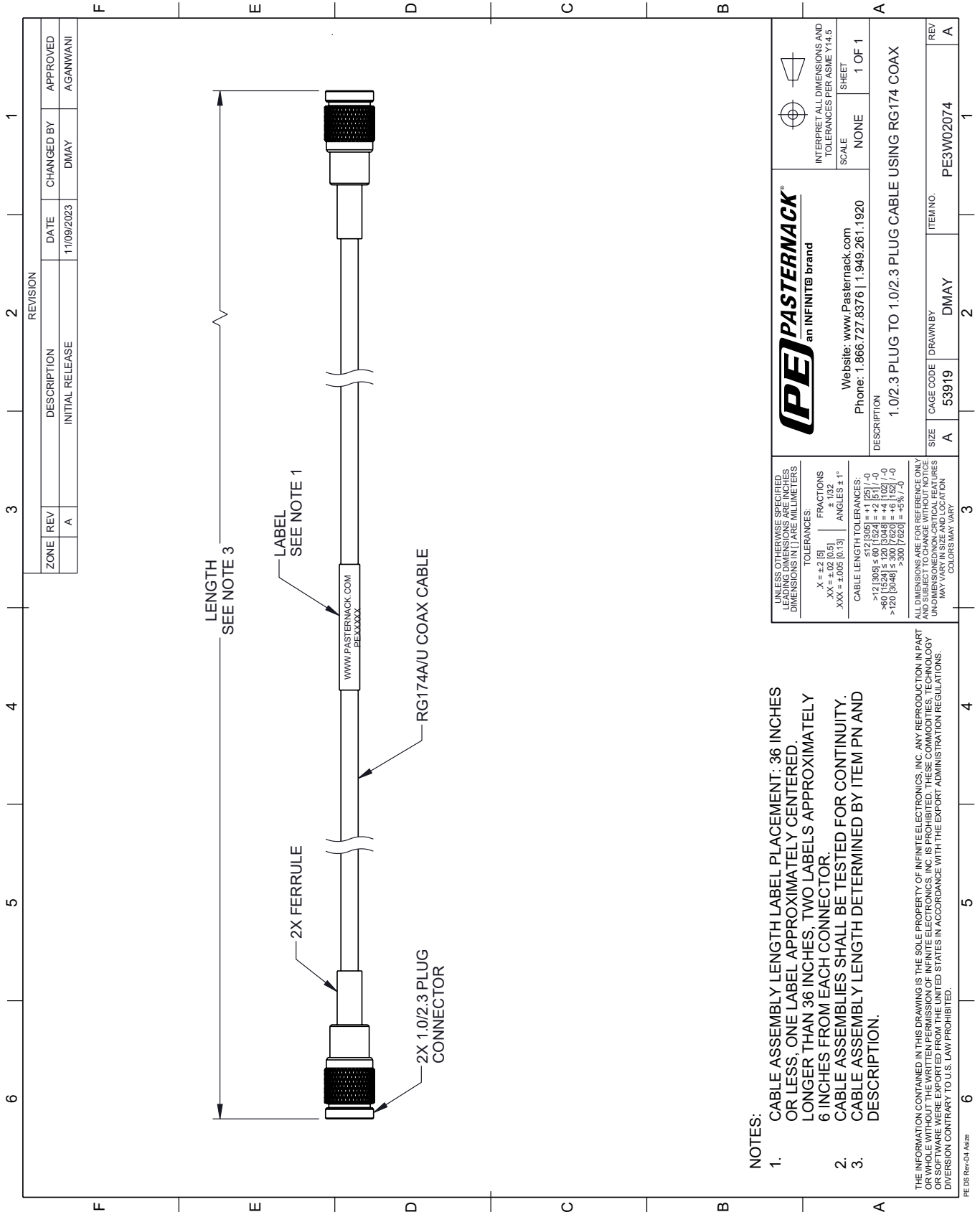
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.0/2.3 Plug to 1.0/2.3 Plug Cable Using RG174 Coax PE3W02074](#)

URL: <https://www.pasternack.com/1.0-2.3-plug-to-1.0-2.3-plug-cable-using-rg174-pe3w02074-p.aspx>

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PE3W02074 CAD Drawing

1.0/2.3 Plug to 1.0/2.3 Plug Cable Using RG174 Coax



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS; ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-D4 Add2

| REVISION | | DATE | CHANGED BY | APPROVED |
|-----------------|-----|------------|------------|----------|
| ZONE | REV | | | |
| | A | 11/09/2023 | DMAY | AGANWANI |
| DESCRIPTION | | | | |
| INITIAL RELEASE | | | | |

| | | | |
|---|-------|--|-----------|
| <p>PASTERNAK an INFINITE brand</p> | | | |
| | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1 | |
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | DESCRIPTION 1.0/2.3 PLUG TO 1.0/2.3 PLUG CABLE USING RG174 COAX | |
| SIZE | A | CAGE CODE | DMAY |
| ITEM NO. | 53919 | ITEM NO. | PE3W02074 |
| REV | A | REV | A |

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS
 ± 1/32

ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0
 >300 [7620] = ±.6% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE UNDIMENSIONED/NON-CRITICAL FEATURES. COLORS MAY VARY.