# 3.5mm Male to 3.5mm Female Cable 12 Inch Length Using RG402 Coax, LF Solder, RoHS

## RF Cable Assemblies Technical Data Sheet

**PE34578LF-12**

### Configuration
- Connector 1: 3.5mm Male
- Connector 2: 3.5mm Female
- Cable Type: RG402

### Features
- Max Frequency 34 GHz

### Applications
- General Purpose
- Laboratory Use

### Description

Pasternack's PE34578LF-12 3.5mm male to 3.5mm female 12 inch cable using RG402 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack 3.5mm to 3.5mm cable assembly has a male to female gender configuration with 50 ohm semi-rigid RG402 coax. The PE34578LF-12 3.5mm male to 3.5mm female cable assembly operates to 34 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 | | 34 | GHz |
| VSWR | | | 1.5:1 | |
| Capacitance | | 29.9 [98.1] | | pF/ft [pF/m] |

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Weight | 0.069 lbs [31.3 g] |

**Cable**

| | |
|---|---|
| Cable Type | RG402 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3.5mm Male to 3.5mm Female Cable 12 Inch Length Using RG402 Coax, LF Solder, RoHS PE34578LF-12

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| | | |
|---|---|---|
| Number of Shields | | 1 |
| Shield Layer 1 | | Copper |

### Connectors

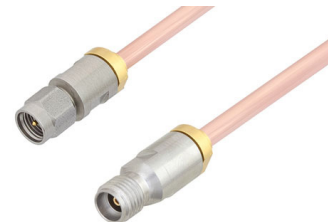| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | 3.5mm Male | 3.5mm Female |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Gold |
| Contact Plating Specification | 50μ in. minimum | |
| Dielectric Type | PCTFE | Noryl |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 | |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Coupling Nut Plating Specification | SAE-AMS-2700 | |
| Hex Size | 5/16 in. | |
| Torque | 8 in-lbs [0.9 Nm] | |

**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**
Notes:
• Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3.5mm Male to 3.5mm Female Cable 12 Inch Length Using RG402 Coax, LF Solder, RoHS PE34578LF-12

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# PASTERNACK
an INFINITE brand

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### How to Order

Part Number Configuration:          PE34578LF      - xx      uu

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

Example:      PE34578LF-12 = 12 inches long cable
PE34578LF-100cm = 100 cm long cable

3.5mm Male to 3.5mm Female Cable 12 Inch Length Using RG402 Coax, LF Solder, RoHS 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: 3.5mm Male to 3.5mm Female Cable 12 Inch Length Using RG402 Coax, LF Solder, RoHS PE34578LF-12

URL: https://www.pasternack.com/3.5mm-male-3.5mm-female-rg402u-cable-assembly-pe34578lf-12-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.

# PE34578LF-12 CAD Drawing
## 3.5mm Male to 3.5mm Female Cable 12 Inch Length Using RG402 Coax, LF Solder, RoHS

1/4 FLATS

**3.5mm FEMALE**

LENGTH MEASURED FROM CONTACT TO CONTACT

1/4 FLATS

**3.5mm MALE**

5/16 HEX

### Standard Lengths

| | | |
|---|---|---|
| -12 | 12" | |
| -24 | 24" | |
| -36 | 36" | |
| -48 | 48" | |
| -60 | 60" | |
| -XXX | Custom Length In Inches | |

THIRD-ANGLE PROJECTION

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| SHEET 1 | OF 1 |
|---|---|
| SCALE N/A | REV B |

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| CAGE CODE 53919 | DRAWN BY WZHANG | ITEM NO. PE34578LF |
|---|---|---|
| SIZE A | | |

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

TOLERANCES:
.X = ± .2   [5.08]     FRACTIONS:
.XX = ± .02  [.51]        ± 1/32
.XXX = ± .005 [.13]    ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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