



3.5mm Male to 3.5mm Female Cable
48 Inch Length Using RG402 Coax

RF Cable Assemblies Technical Data Sheet

PE34578-48

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 PE34578-48 3.5mm male to 3.5mm female 48 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 PE34578-48 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 0.173 lbs [78.47 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 48 Inch Length Using RG402 Coax PE34578-48](#)



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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.

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How to Order

Part Number Configuration:

PE34578

- xx

uu

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

Example: PE34578-12 = 12 inches long cable
PE34578-100cm = 100 cm long cable

3.5mm Male to 3.5mm Female Cable 48 Inch Length Using RG402 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: [3.5mm Male to 3.5mm Female Cable 48 Inch Length Using RG402 Coax PE34578-48](#)

URL: <https://www.pasternack.com/3.5mm-male-3.5mm-female-rg402u-cable-assembly-pe34578-48-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.

PE34578-48 CAD Drawing
3.5mm Male to 3.5mm Female Cable 48 Inch Length Using RG402 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PE34578-6 20220729	08/10/2022	AMARG



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

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

TOLERANCES:
.X = ± .2 [.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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an INFINITE brand

Pasternack Enterprises, Inc.
P.O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	WZHANG	PE34578	B

THIRD-ANGLE PROJECTION



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SCALE	N/A		