

SMA Female to SMA Female Cable Using Tinned RG402 Coax



PE3W01580

Configuration

- Connector 1: SMA Female
- Connector 2: SMA Female
- Cable Type: RG402 Tinned
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W01580 SMA female to SMA female cable using tinned 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 SMA to SMA cable assembly has a female to female gender configuration with 50 ohm semi-rigid RG402 tinned coax. The PE3W01580 SMA female to SMA female cable assembly operates to 18 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		18	GHz
VSWR			1.4:1	

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	1000	2000	4500	9000	18000	
PE3W01580	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.157	0.248	0.413	0.65	dB/ft	
			0.4	0.52	0.82	1.36	2.14	dB/m	
PE3W01580-6	6 inch	Insertion Loss (Typ.)	0.26	0.28	0.33	0.41	0.53	dB	0.022
PE3W01580-12	12 inch	Insertion Loss (Typ.)	0.32	0.36	0.45	0.62	0.85	dB	0.037
PE3W01580-18	18 inch	Insertion Loss (Typ.)	0.38	0.44	0.58	0.82	1.18	dB	0.053
PE3W01580-24	24 inch	Insertion Loss (Typ.)	0.44	0.52	0.7	1.03	1.5	dB	0.069
PE3W01580-36	36 inch	Insertion Loss (Typ.)	0.56	0.68	0.95	1.44	2.15	dB	0.1

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:	0.037 pounds
Additional Weight per Inch:	0.00259 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.037 lbs [16.78 g]

Cable

Cable Type	RG402 Tinned
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Copper
One Time Minimum Bend Radius	1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMA Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold

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Environmental Specifications

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

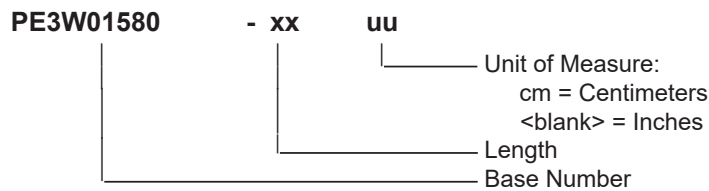
Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W01580-12 = 12 inches long cable
PE3W01580-100cm = 100 cm long cable

SMA Female to SMA Female Cable Using Tinned 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: [SMA Female to SMA Female Cable Using Tinned RG402 Coax PE3W01580](#)

URL: <https://www.pasternack.com/sma-female-to-sma-female-cable-using-tinned-rg402-pe3w01580-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W01580 CAD Drawing

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