



SMA Female 4 Hole Flange to SMA Male Cable Using Tinned RG405 Coax

RF Cable Assemblies Technical Data Sheet

PE3W12031

Configuration

- Connector 1: SMA Female 4 Hole Flange
- Connector 2: SMA Male
- Cable Type: RG405 Tinned

Features

- Max Frequency 18 GHz

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12031 SMA female 4 hole flange to SMA male cable using tinned RG405 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 male gender configuration with 50 ohm semi-rigid RG405 tinned coax. The PE3W12031 SMA female to SMA male cable assembly operates to 18 GHz. Our RF cable assembly with SMA 4 hole flange interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.22	0.284	0.445	0.735	1.12	dB/ft
	0.72	0.93	1.46	2.41	3.67	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female 4 Hole Flange to SMA Male Cable Using Tinned RG405 Coax PE3W12031](#)

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Mechanical Specifications

Cable Assembly

Weight 0.032 lbs [14.51 g]

Cable

Cable Type RG405 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 0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female 4 Hole Flange	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Specification		10 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W12031

- **xx**

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

Example: PE3W12031-12 = 12 inches long cable
PE3W12031-100cm = 100 cm long cable

SMA Female 4 Hole Flange to SMA Male Cable Using Tinned RG405 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 4 Hole Flange to SMA Male Cable Using Tinned RG405 Coax PE3W12031](#)

URL: <https://www.pasternack.com/sma-female-4-hole-flange-to-sma-male-cable-using-tinned-rg405-pe3w12031-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.

PE3W12031 CAD Drawing

SMA Female 4 Hole Flange to SMA Male Cable Using Tinned RG405 Coax

