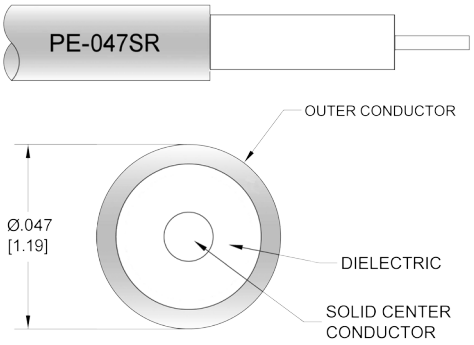
SMA Male to SMA Male Cable Using PE-047SR Coax

PE3C0976

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-047SR
- Coax Flex Type: Semi-Rigid



Features

- Max Frequency 18 GHz

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0976 SMA male to SMA male cable using PE-047SR 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 male to male gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3C0976 SMA male to SMA male 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			1.5:1	

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	MHz	
PE3C0976	Custom Lengths Available	Insertion Loss (Typ.)	0.4	0.5	0.75	1.2	1.78	dB/ft	
			1.32	1.65	2.47	3.94	5.84	dB/m	
PE3C0976-3	3 inch	Insertion Loss (Typ.)	0.2	0.27	0.4	0.6	0.87	dB	0.025
PE3C0976-6	6 inch	Insertion Loss (Typ.)	0.3	0.4	0.59	0.9	1.32	dB	0.026
PE3C0976-12	12 inch	Insertion Loss (Typ.)	0.5	0.65	0.97	1.5	2.21	dB	0.028
PE3C0976-18	18 inch	Insertion Loss (Typ.)	0.7	0.9	1.34	2.1	3.1	dB	0.031
PE3C0976-60	60 inch	Insertion Loss (Typ.)	2.1	2.65	3.97	6.3	9.33	dB	0.045

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:	0.05*sqrt(fGHz)	dB
Loss due to Connector 2:	0.05*sqrt(fGHz)	dB
Base Weight:	0.028	pounds
Additional Weight per Inch:	0.00034	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.028 lbs [12.7 g]

Cable

Cable Type	PE-047SR
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	Copper
Jacket Diameter	0.047 in [1.19 mm]
One Time Minimum Bend Radius	0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	ASTM-A380	ASTM-A380
Hex Size	5/16 in.	5/16 in.
Torque	10 in-lbs 1.13 Nm	10 in-lbs 1.13 Nm

Environmental Specifications

Operating Range Temperature	-55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C0976 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C0976 — Base Number

Example: PE3C0976-12 = 12 inches long cable
PE3C0976-100cm = 100 cm long cable

SMA Male to SMA Male Cable Using PE-047SR 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 Male to SMA Male Cable Using PE-047SR Coax PE3C0976

URL: https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-047sr-pe3c0976-p.aspx

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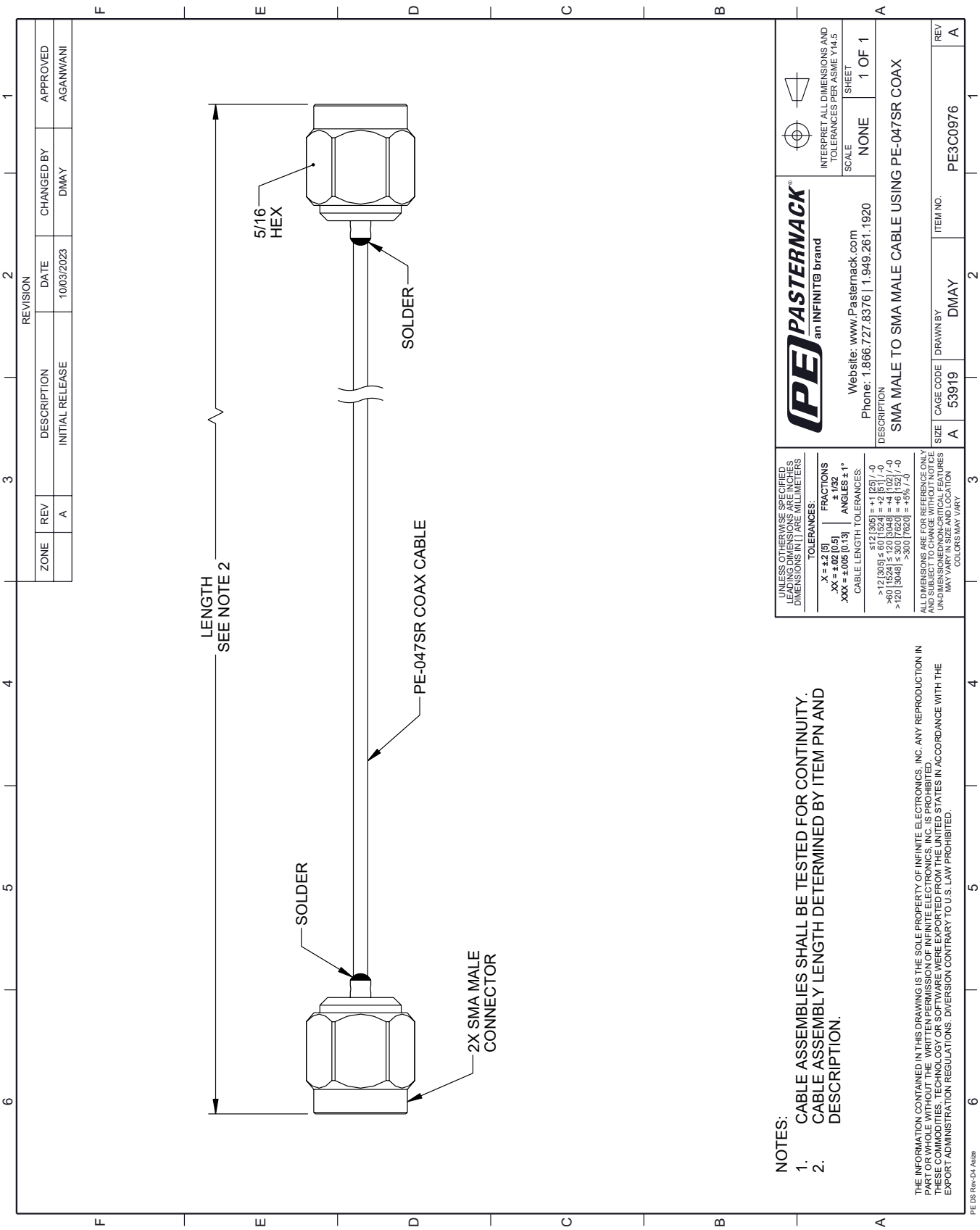
PE3C0976 CAD Drawing

SMA Male to SMA Male Cable Using PE-047SR Coax



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