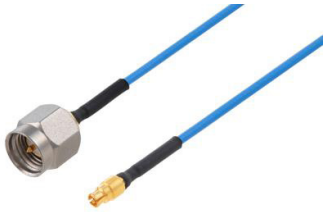
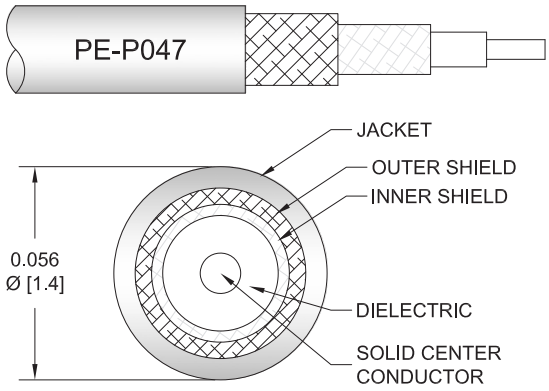
SMA Male to Mini SMP Female Cable Using PE-P047 Coax



PE3C1888

Configuration

- Connector 1: SMA Male
- Connector 2: Mini SMP Female
- Cable Type: PE-P047
- Coax Flex Type: Flexible



Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1888 SMA male to Mini SMP female cable using PE-P047 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to Mini SMP cable assembly has a male to female gender configuration with 50 ohm flexible PE-P047 coax. The PE3C1888 SMA male to Mini SMP female cable assembly operates to 18 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

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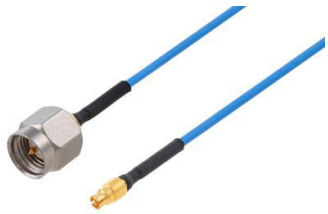

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C1888	Custom Lengths Available	Insertion Loss (Typ.)	0.335	0.484	0.745	1.1	1.652	dB/ft	
			1.1	1.59	2.45	3.61	5.42	dB/m	
PE3C1888-6	6 inch	Insertion Loss (Typ.)	0.26	0.37	0.57	0.82	1.21	dB	0.016
PE3C1888-12	12 inch	Insertion Loss (Typ.)	0.43	0.62	0.94	1.37	2.04	dB	0.017
PE3C1888-24	24 inch	Insertion Loss (Typ.)	0.76	1.1	1.69	2.47	3.69	dB	0.02
PE3C1888-36	36 inch	Insertion Loss (Typ.)	1.1	1.58	2.43	3.57	5.34	dB	0.023
PE3C1888-48	48 inch	Insertion Loss (Typ.)	1.43	2.07	3.18	4.67	6.99	dB	0.026

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:	0.04*SQRT(FGHz)	dB
Base Weight:	0.017	pounds
Additional Weight per Inch:	0.00025	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.017 lbs [7.71 g]

Cable

Cable Type	PE-P047
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	FEP
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.056 in [1.42 mm]
One Time Minimum Bend Radius	0.2 in [5.08 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

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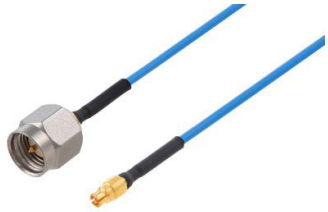

PE3C1888

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	Mini SMP Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification	MIL-G-45204	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM-A380	
Hex Size	5/16 in.	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

Operating Range Temperature	-55 to +155 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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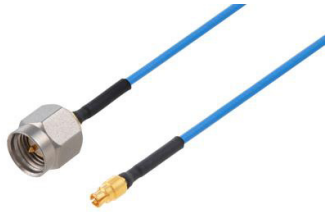

PE3C1888

Typical Performance Data

How to Order

Part Number Configuration: **PE3C1888 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C1888 — Base Number

Example: PE3C1888-12 = 12 inches long cable
PE3C1888-100cm = 100 cm long cable

SMA Male to Mini SMP Female Cable Using PE-P047 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 Mini SMP Female Cable Using PE-P047 Coax PE3C1888

URL: https://www.pasternack.com/sma-male-to-mini-smp-female-cable-using-pe-p047-pe3c1888-p.aspx

PE3C1888 CAD Drawing

SMA Male to Mini SMP Female Cable Using PE-P047 Coax