

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



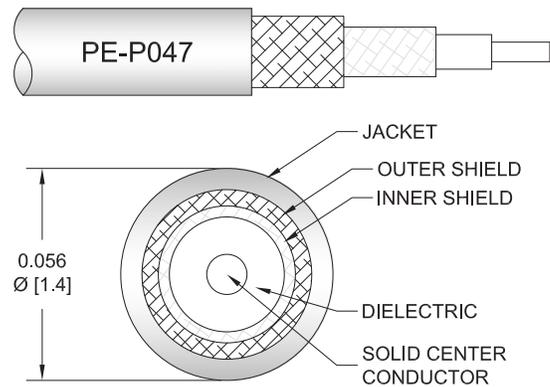
PE3C10588

Configuration

- Connector 1: Mini SMP Female
- Connector 2: 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 PE3C10588 Mini SMP female to 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 Mini SMP to SMP cable assembly has a female to female gender configuration with 50 ohm flexible PE-P047 coax. The PE3C10588 Mini SMP female to 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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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		1000	2000	4500	9000	
PE3C10588	Custom Lengths Available	Insertion Loss (Typ.)	0.335	0.484	0.745	1.102	1.652	dB/ft	
			1.1	1.59	2.45	3.62	5.42	dB/m	
PE3C10588-6	6 In	Insertion Loss (Typ.)	0.92	1	1.13	1.31	1.58	dB	1.57
PE3C10588-12	12 In	Insertion Loss (Typ.)	1.09	1.24	1.5	1.86	2.41	dB	1.571
PE3C10588-18	18 In	Insertion Loss (Typ.)	1.26	1.48	1.87	2.41	3.23	dB	1.573
PE3C10588-24	24 In	Insertion Loss (Typ.)	1.42	1.72	2.24	2.96	4.06	dB	1.574
PE3C10588-36	36 In	Insertion Loss (Typ.)	1.76	2.21	2.99	4.06	5.71	dB	1.577

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:	0.65 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	1.571 pounds
Additional Weight per Inch:	0.00025 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.033 lbs [14.97 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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Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Female	SMP Female
Specification		DESC 94008
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM B488	MIL-G-45204
Dielectric Type	PEI	PTFE
Outer Conductor Material and Plating	Brass, Gold	
Outer Conductor Plating Specification	ASTM B488	
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification	ASTM B488	MIL-G-45204

Environmental Specifications

Operating Range Temperature -55 to +105 deg C

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

Plotted and Other Data

Notes:

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PE3C10588

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10588

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10588-12 = 12 inches long cable
PE3C10588-100cm = 100 cm long cable

Mini SMP Female to 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.

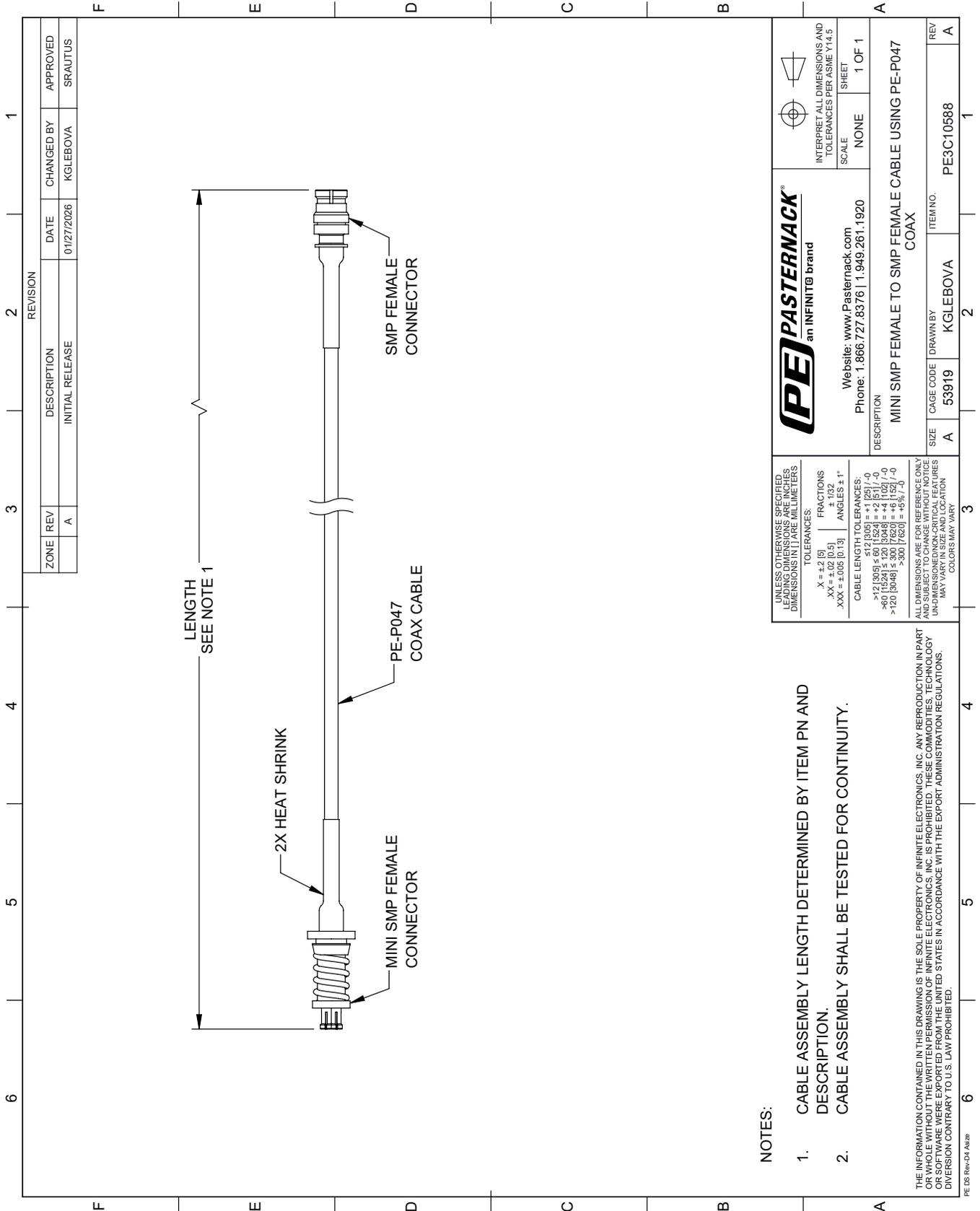
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female to SMP Female Cable Using PE-P047 Coax PE3C10588](#)

URL: <https://www.pasternack.com/mini-smp-female-to-smp-female-cable-using-pe-p047-pe3c10588-p.aspx>

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PE3C10588 CAD Drawing

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



NOTES:

1. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

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

TOLERANCES:

X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	

CABLE LENGTH TOLERANCES:

>12 [305] ≤ 60 [1524]	±.02 [51] / -0
>60 [1524] ≤ 120 [3048]	±.04 [102] / -0
>120 [3048] ≤ 300 [7620]	±.08 [203] / -0
>300 [7620]	±.16 [406] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: MINI SMP FEMALE TO SMP FEMALE CABLE USING PE-P047 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3C10588

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