

Mini SMP Female Right Angle to SMA Male Right Angle Cable Using PE-P047 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

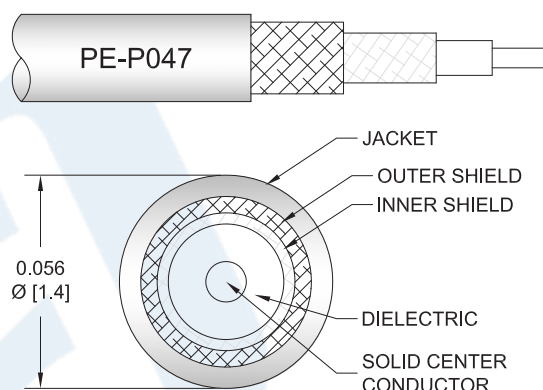
PE3C8083/HS

Configuration

- Connector 1: Mini SMP Female Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P047

Features

- Max Frequency 10 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

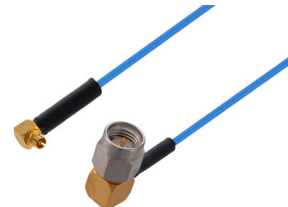
- General Purpose
- Laboratory Use

Description

Pasternack's PE3C8083/HS Mini SMP female right angle to SMA male right angle 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 SMA cable assembly has a female to male gender configuration with 50 ohm flexible PE-P047 coax. The PE3C8083/HS Mini SMP female to SMA male cable assembly operates to 10 GHz. The right angle Mini SMP and right angle SMA interfaces on the PE-P047 cable allow for easier connections in tight spaces. 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.

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 Right Angle to SMA Male Right Angle Cable Using PE-P047 Coax with HeatShrink PE3C8083/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Typ.)	0.167	0.335	0.539	0.786	1.169	dB/ft
	0.55	1.1	1.77	2.58	3.84	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05 \times \sqrt{\text{FGHz}}$ dB for the Mini SMP female connector and 0.2 dB for the SMA male connector.

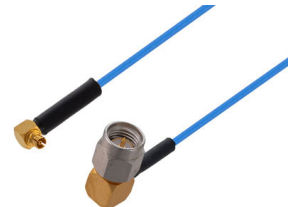
Mechanical Specifications

Cable Assembly

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 Right Angle	SMA Male Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification		MIL-G-45204, Class 1
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Brass, Gold	Stainless Steel, Gold
Body Plating Specification		MIL-G-45204, Class 0
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		QQ-N-290, Class 1, Grade G
Hex Size		5/16 in.
Torque		5 in-lbs [0.57 Nm]

Environmental Specifications

Temperature

Operating Range

-55 to +155 deg C

Humidity

MIL-STD-202, Method 106

Shock

MIL-STD-202, Method 213, Condition A

Vibration

MIL-STD-202, Method 204, Condition A

Thermal Shock

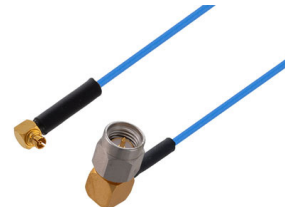
MIL-STD-202, Method 107, Condition B

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

Plotted and Other Data

Notes:

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PE3C8083/HS

How to Order

Part Number Configuration:

PE3C8083/HS - xx

uu

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

Example: PE3C8083/HS-12 = 12 inches long cable
PE3C8083/HS-100cm = 100 cm long cable

Mini SMP Female Right Angle to SMA Male Right Angle Cable Using PE-P047 Coax with HeatShrink 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.

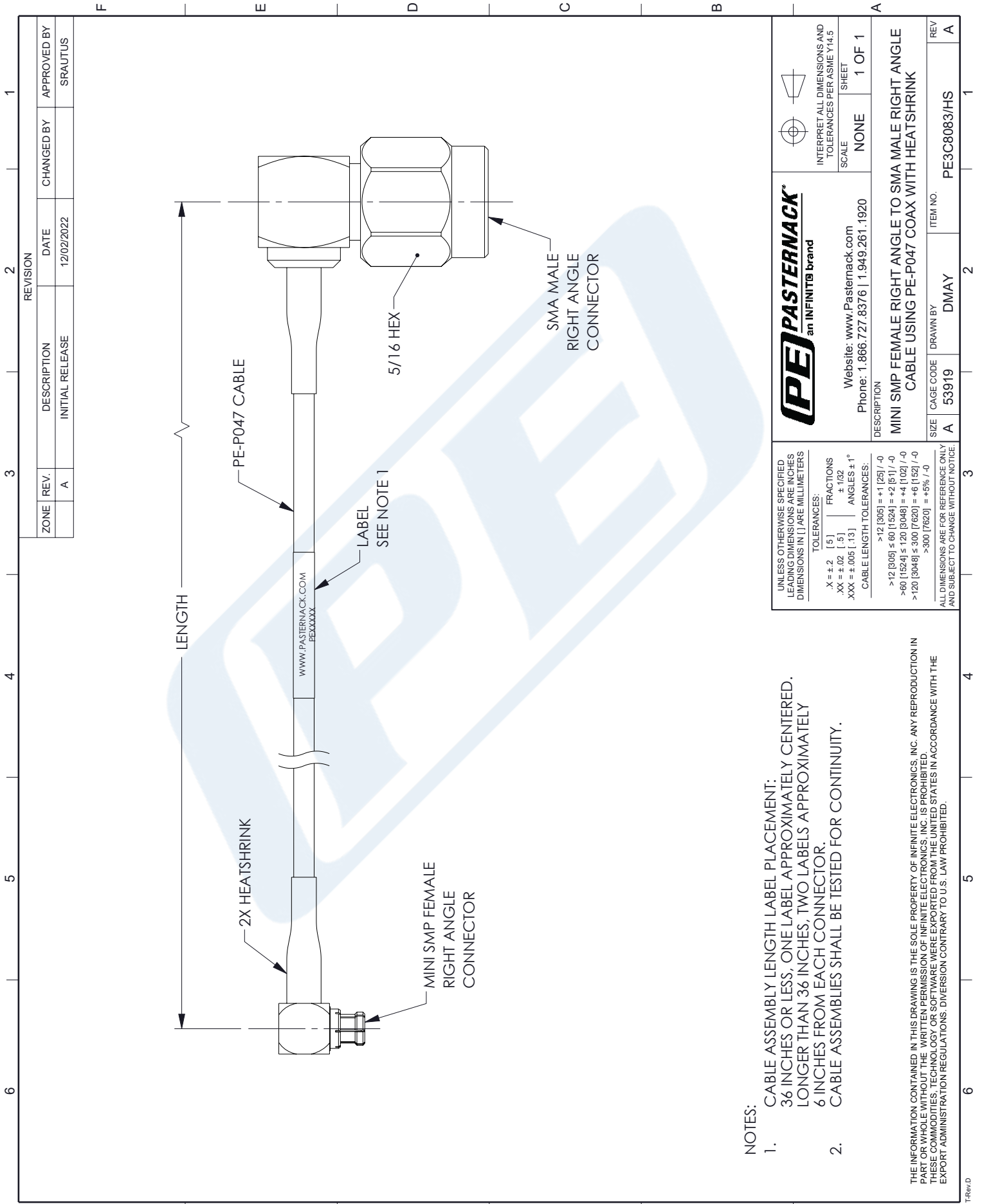
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URL:

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PE3C8083/HS CAD Drawing

Mini SMP Female Right Angle to SMA Male Right Angle
Cable Using PE-P047 Coax with HeatShrink



NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY
6 INCHES FROM EACH CONNECTOR.
CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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