



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

TECHNICAL DATA SHEET

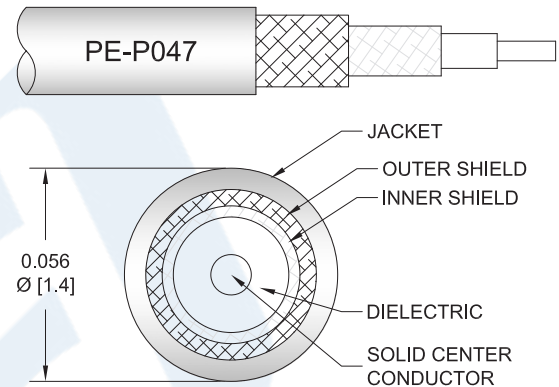
PE3C5004/HS

Configuration

- Connector 1: Mini SMP Female Right Angle
- Connector 2: Mini SMP Female Right Angle
- Cable Type: PE-P047
- Coax Flex Type: Flexible

Features

- Max Frequency 12 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5004/HS Mini SMP female right angle to Mini SMP female 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 Mini SMP cable assembly has a female to female gender configuration with 50 ohm flexible PE-P047 coax. The PE3C5004/HS Mini SMP female to Mini SMP female cable assembly operates to 12 GHz. The right angle Mini SMP 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 Mini SMP Female Right Angle Cable Using PE-P047 Coax with HeatShrink PE3C5004/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12	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	1	2	2.5	5	12	GHz
Insertion Loss (Typ.)	0.335	0.484	0.539	0.787	1.304	dB/ft
	1.1	1.59	1.77	2.58	4.28	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 max up to 12 GHz for connectors.

Mechanical Specifications

Cable Assembly

Weight 0.039 lbs [17.69 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 Right Angle Push-On	Mini SMP Female Right Angle Push-On
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Brass, Gold	Brass, Gold

Environmental Specifications

Temperature

Operating Range

-55 to +155 deg C

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

Plotted and Other Data

Notes:

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TECHNICAL DATA SHEET

PE3C5004/HS

How to Order

Part Number Configuration:

PE3C5004/HS

- **xx**

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

Example: PE3C5004/HS-12 = 12 inches long cable
PE3C5004/HS-100cm = 100 cm long cable

Mini SMP Female Right Angle to Mini SMP Female 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.

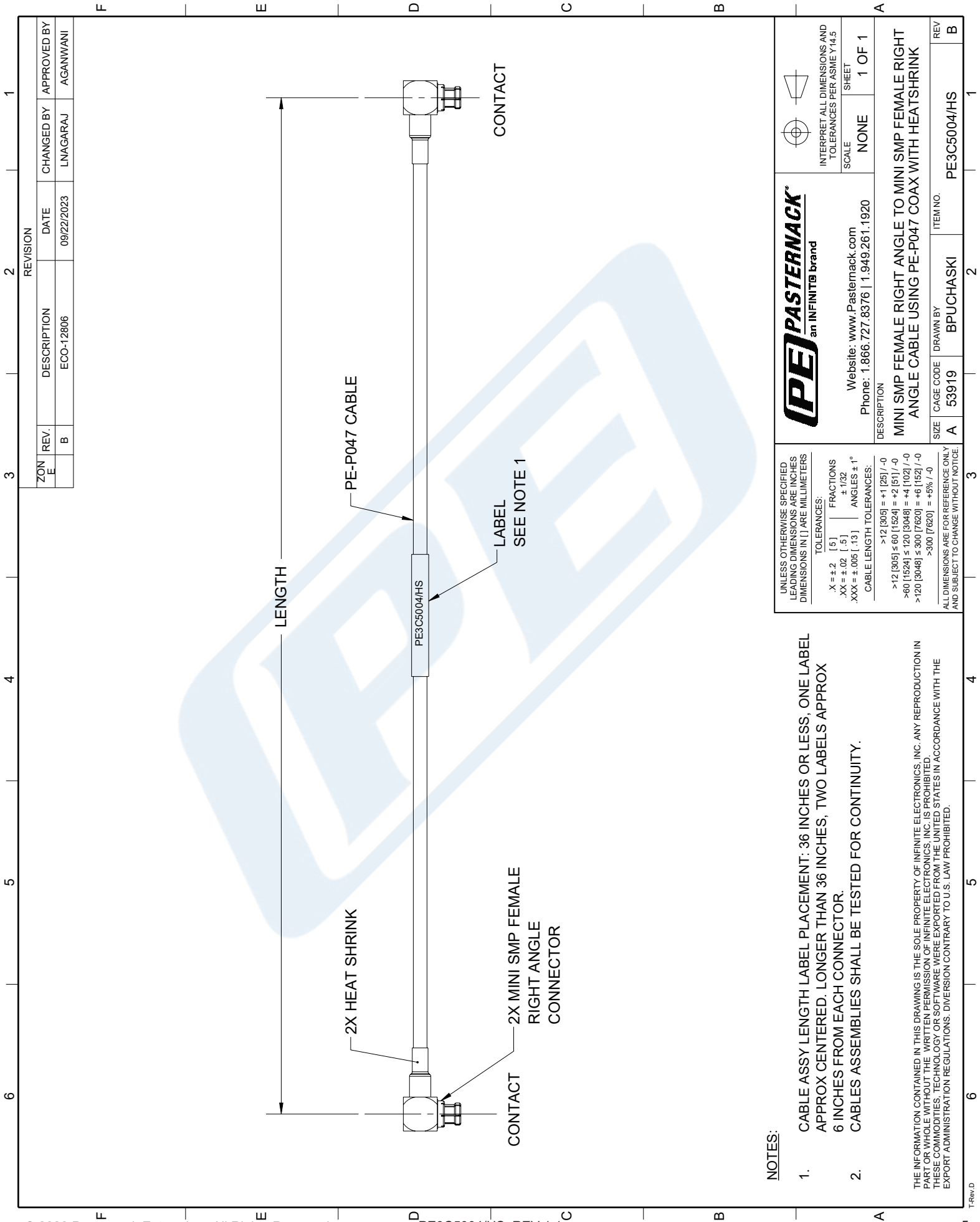
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URL: <https://www.pasternack.com/mini-smp-female-right-angle-to-mini-smp-female-cable-using-pe-p047-with-heatshrink-pe3c5004-hs-p.aspx>

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PE3C5004/HS CAD Drawing

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



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		PE PASTERNAK an INFINITI [®] brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES: X = ± 2 [.5] FRACTIONS .XX = ± .02 [.5] ± 1/32 .XXX = ± .005 [.13] ANGLES ± 1°		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE NONE SHEET 1 OF 1	
CABLE LENGTH TOLERANCES: >12 [305] = +1 [25] / -0 >12 [305] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [162] / -0 >300 [7620] = +5% / -0		DESCRIPTION MINI SMP FEMALE RIGHT ANGLE TO MINI SMP FEMALE RIGHT ANGLE CABLE USING PE-P047 COAX WITH HEATSHRINK			
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE		SIZE A	CAGE CODE 53919	DRAWN BY BPUCHASKI	ITEM NO. PE3C5004/HS
		REV B			