

SMA Male Right Angle to SMA Male Right Angle Cable Using RG142 Coax with 270 Deg. Clock



PE3514/PH270

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: RG142
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3514/PH270 SMA male right angle to SMA male right angle cable using RG142 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE3514/PH270 SMA male to SMA male cable assembly operates to 8 GHz. The right angle SMA interfaces on the RG142 cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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		8	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		500	1000	2000	4000	
PE3514/PH270	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.13	0.18	0.28	0.442	dB/ft	
			0.29	0.43	0.61	0.92	1.45	dB/m	
PE3514/PH270-12	12 inch	Insertion Loss (Typ.)	0.49	0.53	0.59	0.68	0.85	dB	0.08
PE3514/PH270-24	24 inch	Insertion Loss (Typ.)	0.58	0.66	0.77	0.96	1.29	dB	0.122
PE3514/PH270-36	36 inch	Insertion Loss (Typ.)	0.67	0.79	0.96	1.24	1.73	dB	0.164
PE3514/PH270-48	48 inch	Insertion Loss (Typ.)	0.75	0.92	1.14	1.52	2.17	dB	0.206
PE3514/PH270-60	60 inch	Insertion Loss (Typ.)	0.84	1.05	1.32	1.8	2.61	dB	0.248

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.08 pounds
Additional Weight per Inch:	0.0035 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.038 lbs [17.24 g]

Cable

Cable Type	RG142
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs 0.34 Nm	3 in-lbs 0.34 Nm

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

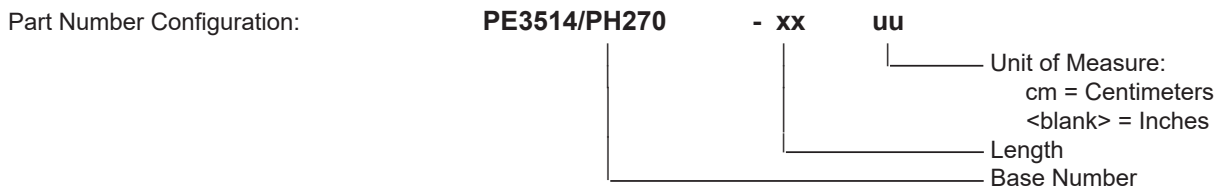
SMA Male Right Angle to SMA Male Right Angle
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PE3514/PH270

Typical Performance Data

How to Order



Example: PE3514/PH270-12 = 12 inches long cable
 PE3514/PH270-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Cable Using RG142 Coax with 270 Deg. Clock 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.

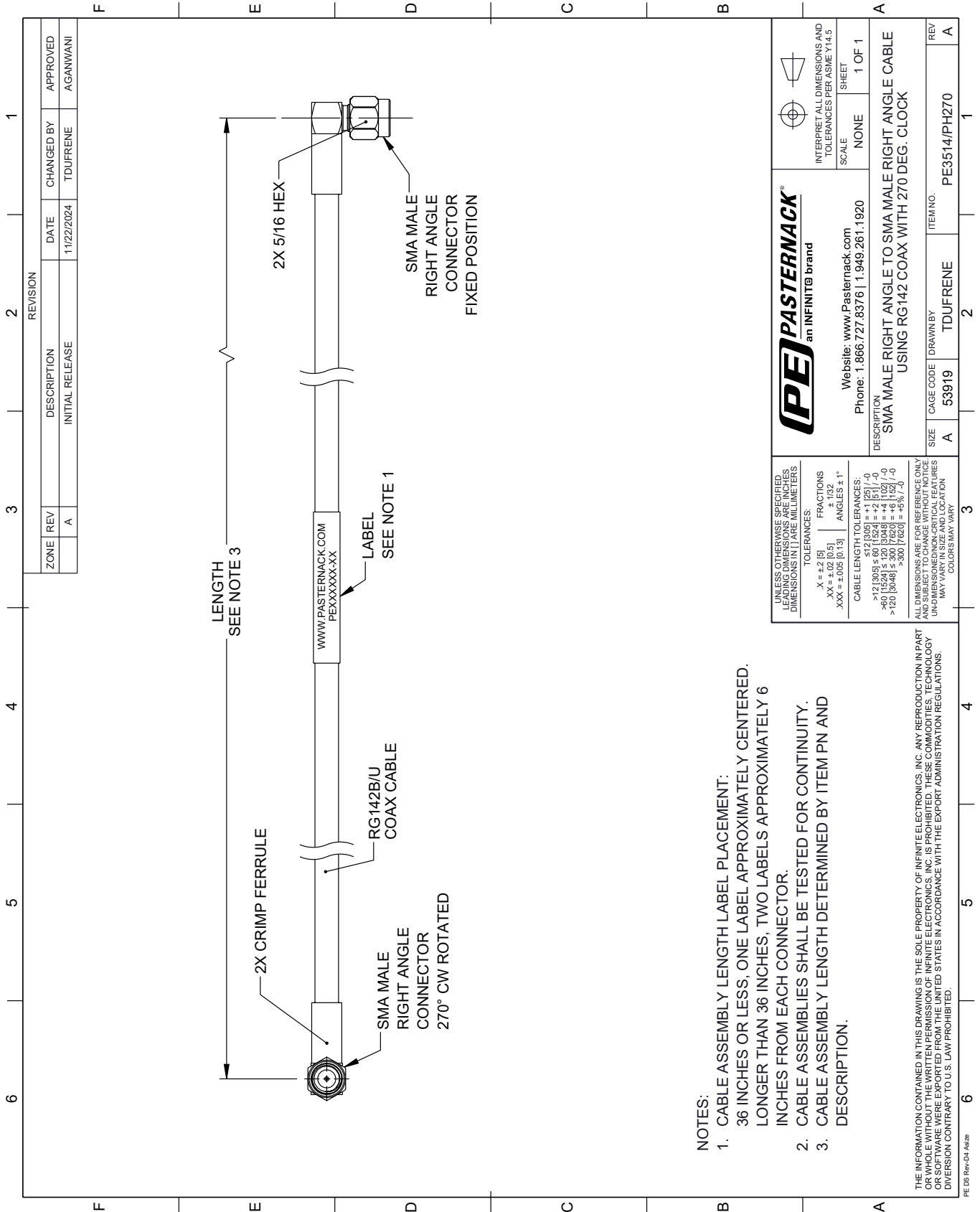
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMA Male Right Angle Cable Using RG142 Coax with 270 Deg. Clock PE3514/PH270](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-sma-male-cable-using-rg142-with-270-deg.-clock-pe3514-ph270-p.aspx>

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PE3514/PH270 CAD Drawing

SMA Male Right Angle to SMA Male Right Angle Cable Using RG142 Coax with 270 Deg. Clock



NOTES:

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

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PE DS Rev-D4 Add2

 an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION: SMA MALE RIGHT ANGLE TO SMA MALE RIGHT ANGLE CABLE USING RG142 COAX WITH 270 DEG. CLOCK	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.	TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]	FRACTIONS: ± 1/32 ANGLES ± 1°	CAGE CODE: 53919 DRAWN BY: TDUFRENE ITEM NO.: PE3514/PH270
CABLE LENGTH TOLERANCES: <12 [305] ≤ 60 [1524] = ±.125 [-0] >60 [1524] ≤ 120 [3048] = ±.15 [-0] >120 [3048] ≤ 300 [7620] = ±.25 [-0]		ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS. COLORS MAY VARY.	