

SMA Male Right Angle to SMA Male Right Angle
Cable 12 Inch Length Using RG142 Coax



RF Cable Assemblies Technical Data Sheet

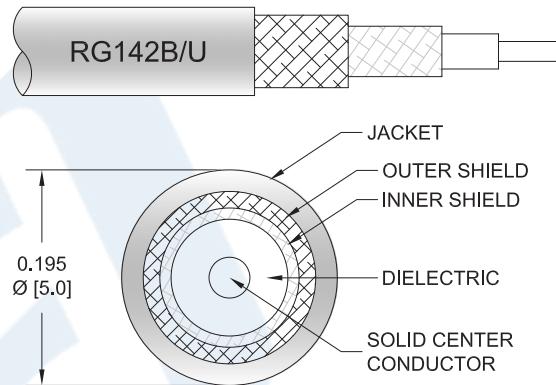
PE3514-12

Configuration

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

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 69.2% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3514-12 SMA male right angle to SMA male right angle 12 inch 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 PE3514-12 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 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: [SMA Male Right Angle to SMA Male Right Angle Cable 12 Inch Length Using RG142 Coax PE3514-12](#)

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.4:1	
Velocity of Propagation		69.2		%
RF Shielding	90			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	8	GHz
Insertion Loss (Typ.)	0.279	0.33	0.384	0.499		dB
Return Loss (Max.)	15.56	15.563	15.563	15.563	15.563	dB

Mechanical Specifications

Cable Assembly

Weight 0.074 lbs [33.57 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]

One Time Minimum Bend Radius 0.984 in [24.99 mm]
 Repeated Minimum Bend Radius 2 in [50.8 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
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μ in. minimum	50 μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in. minimum	100 μ in. minimum
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 Nm]

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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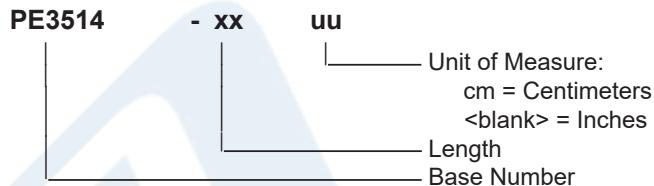


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How to Order

Part Number Configuration:



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

SMA Male Right Angle to SMA Male Right Angle Cable 12 Inch Length Using RG142 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.

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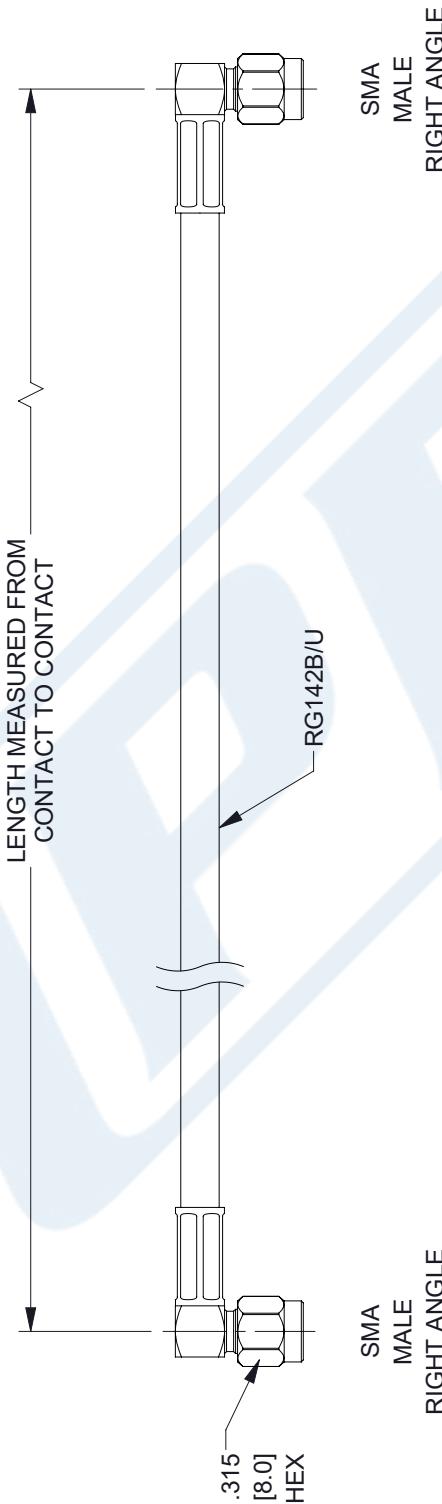
URL: <https://www.pasternack.com/sma-male-sma-male-rg142bu-cable-assembly-pe3514-12-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3514-12 CAD Drawing

SMA Male Right Angle to SMA Male Right Angle Cable 12 Inch Length Using RG142 Coax

REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
B	PCR PE3514/HS-XX 20220714	8/17/2022	SRAUTUS	



		THIRD ANGLE PROJECTION 										
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PASTERACK	an INFINITE brand											
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SHEET 1 OF 1	SCALE N/A	REV B										
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS												
TOLERANCES: <table border="0"> <tr> <td>X = ± 2 [5.08]</td> <td>FRACTIONS</td> </tr> <tr> <td>XX = ± .02 [.51]</td> <td>± 1/32</td> </tr> <tr> <td>XXX = ± .005 [.13]</td> <td>ANGLES ± 1°</td> </tr> </table>	X = ± 2 [5.08]	FRACTIONS	XX = ± .02 [.51]	± 1/32	XXX = ± .005 [.13]	ANGLES ± 1°						
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CABLE LENGTH (L) TOLERANCES: <table border="0"> <tr> <td>L ≤ 12 [305] = +1 [25] / -0</td> <td></td> </tr> <tr> <td>12 [305] < L ≤ 60 [1524] = +2 [51] / -0</td> <td></td> </tr> <tr> <td>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td> <td></td> </tr> <tr> <td>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td> <td></td> </tr> <tr> <td>300 [7620] < L = +5%L / -0</td> <td></td> </tr> </table>	L ≤ 12 [305] = +1 [25] / -0		12 [305] < L ≤ 60 [1524] = +2 [51] / -0		60 [1524] < L ≤ 120 [3048] = +4 [102] / -0		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0		300 [7620] < L = +5%L / -0			
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ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.												

NOTES:
1. RECOMMENDED COUPLING TORQUE: 3 TO 5 in-lbs.

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