



N Female to SMA Male Cable Using RG174 Coax

RF Cable Assemblies Technical Data Sheet

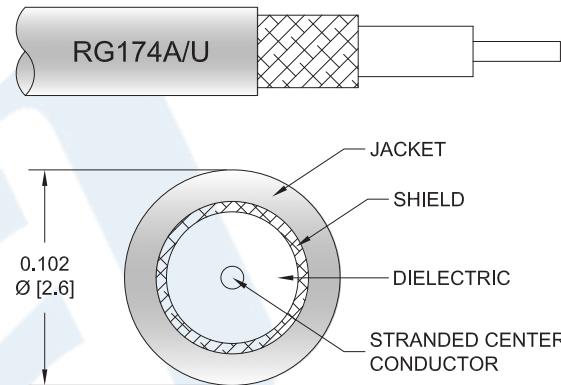
PE3C6531

Configuration

- Connector 1: N Female
- Connector 2: SMA Male
- Cable Type: RG174

Features

- 66% Phase Velocity
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6531 type N female to SMA male cable using RG174 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 type N to SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG174 coax.

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
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Mechanical Specifications

Cable Assembly

Weight 0.086 lbs [39.01 g]

Cable

Cable Type RG174

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to SMA Male Cable Using RG174 Coax PE3C6531](#)



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Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]

Connectors

Description	Connector 1	Connector 2
Type	N Female	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Gold	Brass, Gold
Contact Plating Specification		30 μ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification		100 μ in minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 μ in minimum
Hex Size		16-May inch
Torque		3 in-lbs [0.34 Nm]

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

Plotted and Other Data

Notes:

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PE3C6531

How to Order

Part Number Configuration:

PE3C6531

- **xx**

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

Example: PE3C6531-12 = 12 inches long cable
PE3C6531-100cm = 100 cm long cable

N Female to SMA Male Cable Using RG174 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: [N Female to SMA Male Cable Using RG174 Coax PE3C6531](#)

URL: <https://www.pasternack.com/n-female-to-sma-male-cable-using-rg174-pe3c6531-p.aspx>

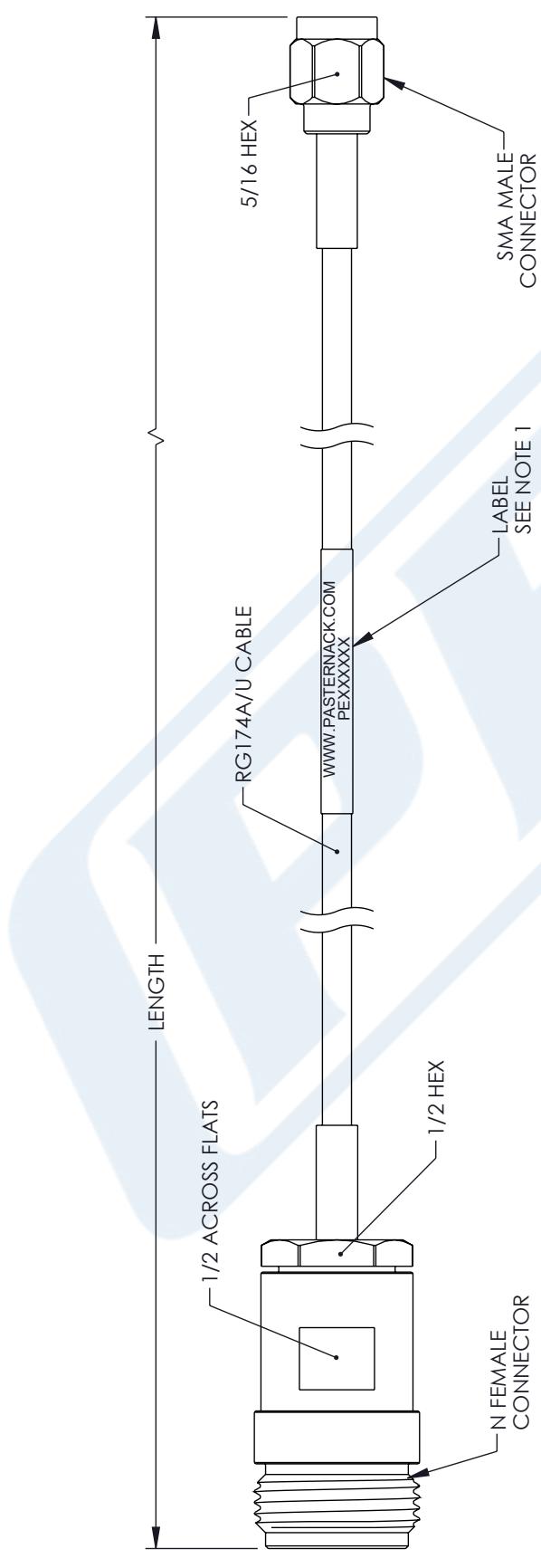
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

PE3C6531 CAD Drawing

N Female to SMA Male Cable Using RG174 Coax

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ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/20/2023	DZINN	AGANWANI



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. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN () ARE MILLIMETERS	
TOLERANCES:	
$X = \pm .02$ [5] $XX = \pm .02$ [5] $XXX = \pm .005$ [13]	FRACTIONS $\pm .032$ $\pm .0005$
ANGLES ± ° CABLE LENGTH TOLERANCES:	
$>12 [305] = \pm 1 [25] / -0$ $>12 [305] \leq 60 [1524] = \pm 2 [51] / -0$ $>60 [1524] \leq 120 [3048] = \pm 4 [102] / -0$	DESCRIPTION PEI PASTERNACK[®] an INFINIT[®] brand   Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE None 1 OF 1

ITEM NO.	REV			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DZINN	PE3C6531	A