

## N Male Right Angle to N Male Right Angle Low PIM Cable 60 Inch Length Using 1/4 inch Superflexible Coax



### RF Cable Assemblies Technical Data Sheet

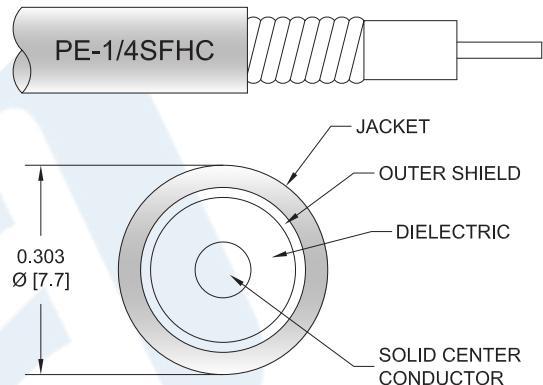
**PE3C7846-60**

#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: 1/4" Superflexible

#### Features

- Max Frequency 6 GHz
- Low PIM: -150 dBc Max
- Shielding Effectivity > 120 dB
- 82% Phase Velocity
- PE Jacket
- Low PIM and Low Loss
- 100% Tested with PIM Test Results Marked on Cable



#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Low PIM Applications and PIM Testing

#### Description

Pasternack's PE3C7846-60 type N male right angle to type N male right angle 60 inch cable using 1/4 inch superflexible coax is part of our full line of RF components available for same-day shipping. Pasternack's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. This Pasternack type N to type N cable assembly has a male to male gender configuration with 50 ohm corrugated 1/4" superflexible coax. The PE3C7846-60 type N male to type N male cable assembly operates to 6 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -150 dBc. The right angle type N interfaces on the 1/4" superflexible cable allow for easier connections in tight spaces.

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		6	GHz
VSWR			1.5:1	
Velocity of Propagation		82		%
RF Shielding	120			dB
Passive Intermodulation			-150	dBc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to N Male Right Angle Low PIM Cable 60 Inch Length Using 1/4 inch Superflexible Coax PE3C7846-60](#)



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Capacitance	24.4 [80.05]	pF/ft [pF/m]
Inductance	0.059 [0.19]	uH/ft [uH/m]
DC Resistance Inner Conductor	3.2 [10.5]	Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor	2.53 [8.3]	Ω/1000ft [Ω/Km]
Jacket Spark	2,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.38	0.43	0.49	0.58	0.83	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

#### Mechanical Specifications

##### Cable Assembly

Length*	60 in [152.4 cm]
Diameter	0.85 in [21.59 mm]

##### Cable

Cable Type	1/4" Superflexible
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Number of Shields	1
Shield Layer 1	Helically Corrugated Copper Tube
Jacket Material	PE, Black
Jacket Diameter	0.303 in [7.7 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Typical Flex Cycles	20
Tensile Strength	79 lbs [35.83 Kg]

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**PE3C7846-60**

#### Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Male Right Angle
Specification	IEC 61169-16	IEC 61169-16
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +85 deg C

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to N Male Right Angle Low PIM Cable 60 Inch Length Using 1/4 inch Superflexible Coax PE3C7846-60](#)



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60 Inch Length Using 1/4 inch Superflexible Coax

RF Cable Assemblies Technical Data Sheet

PE3C7846-60

**How to Order**

Part Number Configuration:

**PE3C7846**

- **xx**

**uu**

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

Example: PE3C7846-12 = 12 inches long cable  
PE3C7846-100cm = 100 cm long cable

N Male Right Angle to N Male Right Angle Low PIM Cable 60 Inch Length Using 1/4 inch Superflexible 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 Male Right Angle to N Male Right Angle Low PIM Cable 60 Inch Length Using 1/4 inch Superflexible Coax PE3C7846-60](#)

URL: <https://www.pasternack.com/n-male-n-male-pe-1-4-sfhc-cable-assembly-pe3c7846-60-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.

# PE3C7846-60 CAD Drawing

N Male Right Angle to N Male Right Angle Low PIM Cable

60 Inch Length Using 1/4 inch Superflexible Coax

REV.		DESCRIPTION		DATE	APPROVED
A	INITIAL RELEASE	1/14/2021	S.ELLIS		
REVISIONS					

LENGTH MEASURED FROM  
CONTACT TO CONTACT

2X HEAT SHRINK BOOT

PE-1/4SFHC

www.PASTERNAK.com  
S/N: XXXXXXXX

(SEE NOTE 1)

(SEE NOTE 2)

N MALE RA

N MALE RA

CONTACT

CONTACT

THIRD-ANGLE PROJECTION

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DESIGN IN THIS DOCUMENT  
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SHEET 1 OF 1

SCALE N/A

REV A

**PASTERNAK**  
an INFINITE<sup>®</sup> brand

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P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: [www.pasterнак.com](http://www.pasterнак.com)  
E-mail: [sales@pasterнак.com](mailto:sales@pasterнак.com)

ITEM NO. PE3C7846

NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12.0" FROM THE END OF THE CONNECTOR.
2. 6" FROM CABLE END 1 PLACE FOR ALL LENGTHS OF CABLE.

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS  
TOLERANCES:

X = $\pm 2$ [5.08]	FRACTIONS XX = $\pm .02$ [5.1]
XXX = $\pm .005$ [13]	ANGLES $\pm 1^\circ$

CABLE LENGTH (L) TOLERANCES:

L $\leq$ 12 [305] = $+1[28]/-0$
12 [305] $<$ L $\leq$ 60 [1524] = $+2[51]/-0$
60 [1524] $<$ L $\leq$ 120 [3048] = $+4[102]/-0$
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