

# N Male Right Angle to N Male Right Angle Low PIM Cable 24 Inch Length Using 1/4 inch Superflexible Coax



#### RF Cable Assemblies Technical Data Sheet

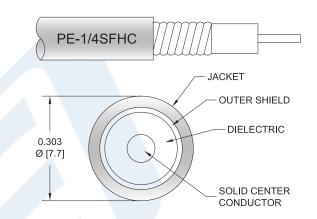
PE3C7846-24

## 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 PE3C7846-24 type N male right angle to type N male right angle 24 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 PE3C7846-24 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 24 Inch Length Using 1/4 inch Superflexible Coax PE3C7846-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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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 Fre	by Frequency					
Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.33	0.35	0.37	0.41	0.51	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

24 in [609.6 mm] Length\* Diameter 0.85 in [21.59 mm]

#### Cable

1/4" Superflexible Cable Type 50 Ohms Impedance Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type PE(F) Number of Shields 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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#### **Connectors**

Connector 1	Connector 2  N Male Right Angle	
N Male Right Angle		
IEC 61169-16	IEC 61169-16	
50 Ohms	50 Ohms	
Brass, Silver	Brass, Silver	
PTFE	PTFE	
Brass, Tri-Metal	Brass, Tri-Metal	
Brass, Tri-Metal	Brass, Tri-Metal	
	N Male Right Angle IEC 61169-16 50 Ohms Brass, Silver PTFE 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:

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#### **How to Order**



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 24 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.

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URL: https://www.pasternack.com/n-male-n-male-pe-1-4-sfhc-cable-assembly-pe3c7846-24-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.

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# PE3C7846-24 CAD Drawing

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