

N Male Right Angle to N Female Low PIM Cable Using 1/4 inch Superflexible Coax



RF Cable Assemblies Technical Data Sheet

PE3C7847

Configuration

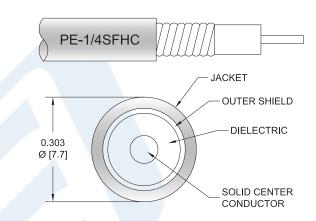
• Connector 1: N Male Right Angle

• Connector 2: N Female

• 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 PE3C7847 type N male right angle to type N female 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 female gender configuration with 50 ohm corrugated 1/4" superflexible coax. The PE3C7847 type N male to type N female 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 interface on the 1/4" superflexible cable allows 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 Female Low PIM Cable Using 1/4 inch Superflexible Coax PE3C7847

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

pecifications by Fr	equency					
Description	F1	F2	F3	F4	F5	Units
requency	0.1	0.25	0.5	1	3	GHz
nsertion Loss (Typ.)	0.016	0.026	0.039	0.057	0.107	dB/ft
	0.05	0.09	0.13	0.19	0.35	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.25dB connector loss.

Mechanical Specifications

Cable Assembly

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating

Dielectric Type

Number of Shields Shield Layer 1 Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Typical Flex Cycles

Tensile Strength

1/4" Superflexible

50 Ohms Solid

Copper Clad Aluminum

PE (F)

Helically Corrugated Copper Tube

PE, Black

0.303 in [7.7 mm]

0.5 in [12.7 mm] 1 in [25.4 mm]

20

79 lbs [35.83 Kg]

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Connectors

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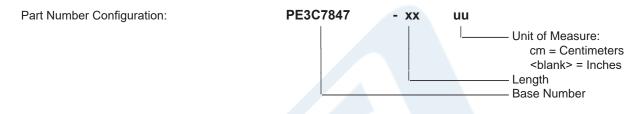
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How to Order



Example: PE3C7847-12 = 12 inches long cable PE3C7847-100cm = 100 cm long cable

N Male Right Angle to N Female Low PIM Cable 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-female-pe-1-4-sfhc-cable-assembly-pe3c7847-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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