



## N Male to N Female Low PIM Cable Using 1/2 inch Superflexible Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

**PE3C0347/HS**

#### Configuration

- Connector 1: N Male
- Connector 2: N Female
- Cable Type: 1/2" Superflexible

#### Features

- Max Frequency 3 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 120 dB
- 82% Phase Velocity
- PE Jacket

#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

#### Description

Pasternack's PE3C0347/HS type N male to type N female cable using 1/2 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 1/2" superflexible coax. The PE3C0347/HS type N male to type N female cable assembly operates to 3 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc.

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		3	GHz
VSWR			1.21:1	
Velocity of Propagation		82		%
RF Shielding	120			dB
Passive Intermodulation			-160	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 to N Female Low PIM Cable Using 1/2 inch Superflexible Coax with HeatShrink PE3C0347/HS](#)



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Capacitance	25.3 [83.01]	pF/ft [pF/m]
Inductance	0.059 [0.19]	uH/ft [uH/m]
DC Resistance Inner Conductor	0.91 [2.99]	Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor	1.08 [3.54]	Ω/1000ft [Ω/Km]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.01	0.015	0.023	0.034	0.063	dB/ft
	0.03	0.05	0.08	0.11	0.21	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.459 lbs [208.2 g]

##### Cable

Cable Type 1/2" 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 0.535 in [13.59 mm]  
  
One Time Minimum Bend Radius 0.6 in [15.24 mm]  
Repeated Minimum Bend Radius 1.18 in [29.97 mm]  
Typical Flex Cycles 20  
Tensile Strength 79 lbs [35.83 Kg]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Specification	IEC 60169-16	IEC 60169-16
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Spring Copper, Silver	Spring Copper, Silver
Contact Plating Specification	5 µm minimum	5 µm minimum
Dielectric Type	TPX	TPX
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Outer Conductor Plating Specification	5 µm minimum	5 µm minimum
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	2 µm minimum	2 µm minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	5 µm minimum	
Hex Size	20 mm	

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +85 deg C

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

#### Plotted and Other Data

Notes:

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**PE3C0347/HS**

#### How to Order

Part Number Configuration:

**PE3C0347/HS**

**- xx**

**uu**

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

Example: PE3C0347/HS-12 = 12 inches long cable  
PE3C0347/HS-100cm = 100 cm long cable

N Male to N Female Low PIM Cable Using 1/2 inch Superflexible Coax with HeatShrink 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-to-n-female-low-pim-cable-using-1-2-inch-superflexible-with-heatshrink-pe3c0347-hs-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.

PE3C0347/HS CAD Drawing

N Male to N Female Low PIM Cable Using 1/2 inch Superflexible Coax with HeatShrink

