

# N Female to SMA Male Low PIM Cable Using 1/4 inch Superflexible Coax in 24 Inch



#### **RF Cable Assemblies Technical Data Sheet**

#### PE3W14156-24

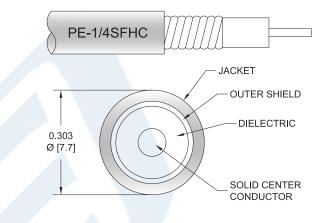
## Configuration

Connector 1: N Female
 Connector 2: SMA Male

• Cable Type: 1/4" Superflexible

#### **Features**

- Max Frequency 3 GHz
- Shielding Effectivity > 120 dB
- 82% Phase Velocity
- PE Jacket



## **Applications**

· General Purpose

Laboratory Use

Low PIM Applications

#### Description

Pasternack's PE3W14156-24 type N female to SMA male 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 SMA cable assembly has a female to male gender configuration with 50 ohm corrugated 1/4" superflexible coax. The PE3W14156-24 type N female to SMA male cable assembly operates to 3 GHz. Our low PIM design also offers excellent passive intermodulation performance.

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.

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 Low PIM Cable Using 1/4 inch Superflexible Coax in 24 Inch PE3W14156-24

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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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		1. 1130	1.5:1	
Velocity of Propagation		82		%
RF Shielding	120			dB
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		1 11	2,000	Vrms

### Specifications by Frequency

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Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.24	0.26	0.28	0.32	0.42	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 0.1 dB per connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Length\* 24 in [609.6 mm] Weight 0.232 lbs [105.23 g]

#### Cable

Cable Type 1/4" Superflexible 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]

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Typical Flex Cycles Tensile Strength 20

79 lbs [35.83 Kg]

#### **Connectors**

Description	Connector 1	Connector 2 SMA Male	
Туре	N Female		
Specification	IEC 60169-16		
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500		
Contact Material and Plating	Spring Copper, Silver	Brass, Silver	
Contact Plating Specification	5 μm minimum		
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Nickel		
Outer Conductor Plating Specification	5 µm minimum		
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	2 µm minimum		
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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#### How to Order



Example: PE3W14156-12 = 12 inches long cable

PE3W14156-100cm = 100 cm long cable

N Female to SMA Male Low PIM Cable Using 1/4 inch Superflexible Coax in 24 Inch 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-female-to-sma-male-low-pim-cable-using-1-4-inch-superflexible-pe3w14156-24-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.

## PE3W14156-24 CAD Drawing

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