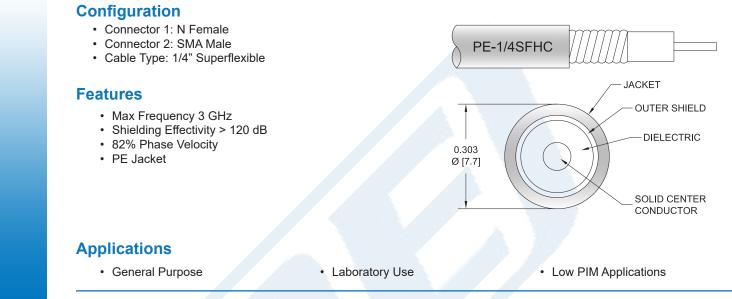


N Female to SMA Male Low PIM Cable Using 1/4 inch Superflexible Coax in 36 Inch



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

## PE3W14156-36



#### Description

Pasternack's PE3W14156-36 type N female to SMA male 36 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 PE3W14156-36 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 36 Inch PE3W14156-36

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



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

#### PE3W14156-36

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		12.	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			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.)	0.25	0.29	0.32	0.38	0.53	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*	36 in [914.4 mm]
Weight	0.28 lbs [127.01 g]
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Jacket Material Jacket Diameter	1/4" Superflexible 50 Ohms Solid Copper Clad Aluminum PE (F) 1 Helically Corrugated Copper Tube PE, Black 0.303 in [7.7 mm]
One Time Minimum Bend Radius Repeated Minimum Bend Radius	0.5 in [12.7 mm] 1 in [25.4 mm]

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

**Typical Flex Cycles Tensile Strength** 

Connectors

Description	Connector 1	Connector 2
Туре	N Female	SMA Male
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

20

79 lbs [35.83 Kg]

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

### PE3W14156-36

# How to Order PE3W14156 Part Number Configuration: - XX uu - Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number 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 36 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. 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 36 Inch PE3W14156-36 URL: https://www.pasternack.com/n-female-to-sma-male-low-pim-cable-using-1-4-inch-superflexible-pe3w14156-36-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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PE3W14156-36 CAD Drawing N Female to SMA Male Low PIM Cable Using 1/4 inch Superflexible Coax in 36 Inch

