

7/16 DIN Male to N Male Cable Using 1/4 inch Superflexible Coax with HeatShrink

PE3W16936/HS

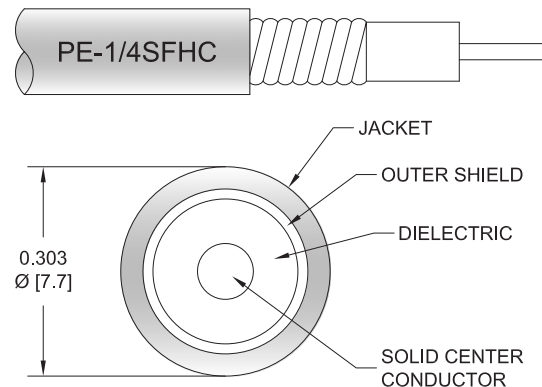


Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: N Male
- Cable Type: 1/4" Superflexible
- Coax Flex Type: Corrugated

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 120 dB
- 82% Phase Velocity
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W16936/HS 7/16 DIN male to type N male 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 7/16 DIN to type N cable assembly has a male to male gender configuration with 50 ohm corrugated 1/4" superflexible coax. The PE3W16936/HS 7/16 DIN male to type N male cable assembly operates to 6 GHz.

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	
VSWR			1.4:1	
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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		2.53 [8.3]		Ohms/1000ft [Ohms/Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	250	500	1000	2500	MHz	
PE3W16936/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.03	0.05	0.09	dB/ft	
			0.07	0.1	0.17	0.3	dB/m	
PE3W16936/HS-12	12 inch	Insertion Loss (Typ.)	0.15	0.21	0.31	0.5	dB	0.294
PE3W16936/HS-24	24 inch	Insertion Loss (Typ.)	0.17	0.24	0.36	0.59	dB	0.336
PE3W16936/HS-36	36 inch	Insertion Loss (Typ.)	0.19	0.27	0.41	0.68	dB	0.378
PE3W16936/HS-48	48 inch	Insertion Loss (Typ.)	0.21	0.3	0.46	0.77	dB	0.42
PE3W16936/HS-60	60 inch	Insertion Loss (Typ.)	0.23	0.33	0.51	0.86	dB	0.462

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1*SQRT(FGHz) dB

Loss due to Connector 2: 0.1*SQRT(FGHz) dB

Base Weight: 0.294 pounds

Additional Weight per Inch: 0.0035 pounds

Mechanical Specifications

Cable Assembly

Weight 0.294 lbs [133.36 g]

Cable

Cable Type 1/4" 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 0.303 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

Description	Connector 1	Connector 2
Type	7/16 DIN Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Specification	196 µin	196 µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	118 µin	118 µin
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Specification	118 µin	118 µin
Torque		7.08 in-lbs 0.8 Nm

Environmental Specifications

Operating Range Temperature -55 to +85 deg C

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

Plotted and Other Data

Notes:

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PE3W16936/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W16936/HS

- xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3W16936/HS-12 = 12 inches long cable
PE3W16936/HS-100cm = 100 cm long cable

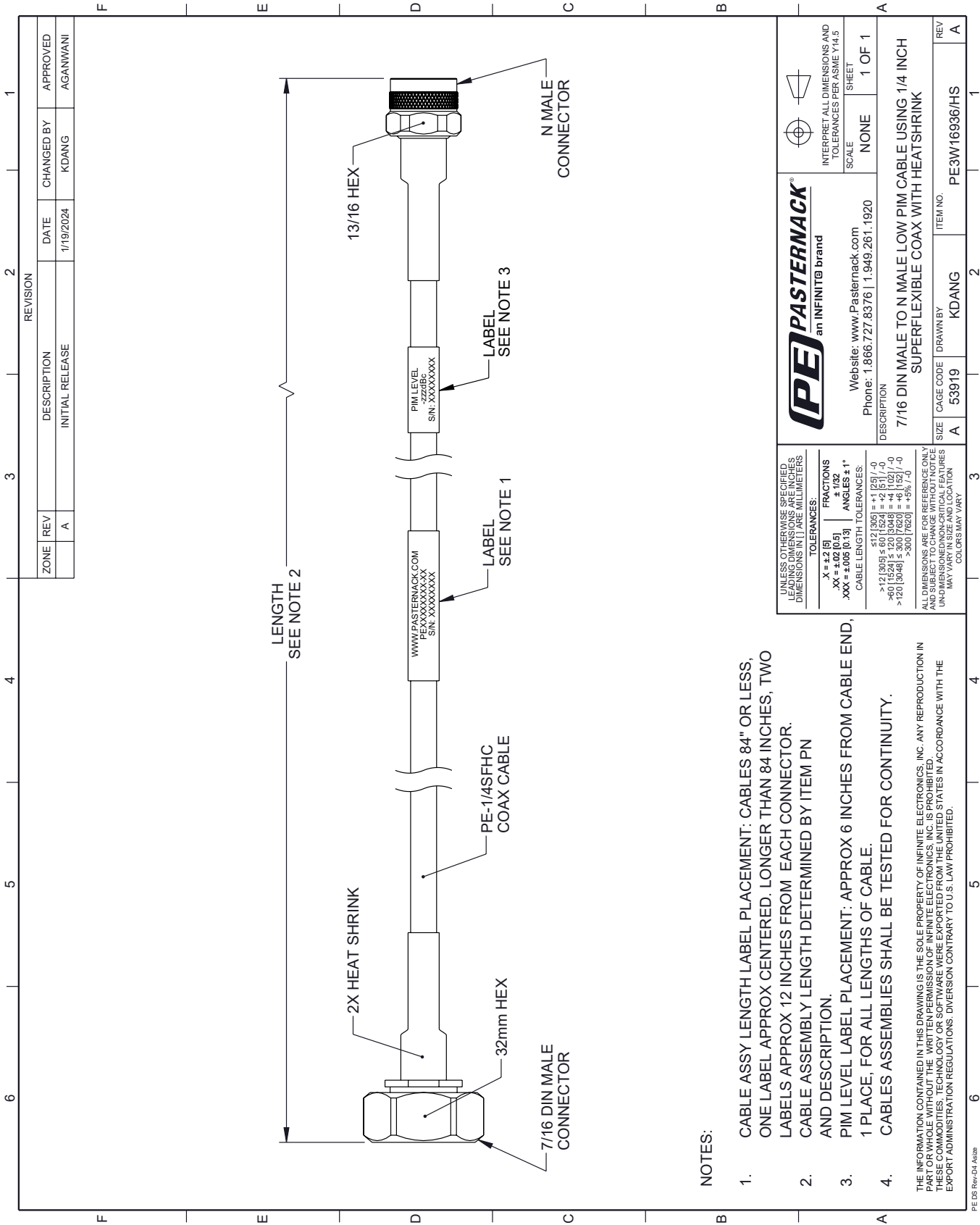
7/16 DIN Male to N Male Cable Using 1/4 inch Superflexible Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male to N Male Cable Using 1/4 inch Superflexible Coax with HeatShrink PE3W16936/HS](https://www.pasternack.com/7-16-din-male-to-n-male-cable-using-1-4-inch-superflexible-coax-with-heatshrink-pe3w16936-hs)

URL: <https://www.pasternack.com/7-16-din-male-to-n-male-cable-using-1-4-inch-superflexible-with-heatshrink-pe3w16936-hs-p.aspx>

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PE3W16936/HS CAD Drawing
7/16 DIN Male to N Male Cable Using 1/4 inch Superflexible Coax with HeatShrink



NOTES:

- 1. CABLE ASSY LENGTH LABEL PLACEMENT: CABLES 84" OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROX 12 INCHES FROM EACH CONNECTOR.
- 2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- 3. PIM LEVEL LABEL PLACEMENT: APPROX 6 INCHES FROM CABLE END, 1 PLACE; FOR ALL LENGTHS OF CABLE.
- 4. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:

.X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	

CABLE LENGTH TOLERANCES:

≤ 12 [305]	±.60 [15.24]
> 12 [305]	±.12 [3.05]
> 120 [3048]	±.12 [3.05]
> 300 [7620]	±.12 [3.05]

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Website: www.Pasternack.com
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE
SHEET 1 OF 1

DESCRIPTION
7/16 DIN MALE TO N MALE LOW PIM CABLE USING 1/4 INCH SUPERFLEXIBLE COAX WITH HEATSHRINK

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KDANG	PE3W16936/HS

REV A