



## 4.3-10 Male to N Male Low PIM Cable Using 1/2 inch Superflexible Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W09405**

#### Configuration

- Connector 1: 4.3-10 Male
- Connector 2: N Male
- 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 PE3W09405 4.3-10 male to type N male 12 inch 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 4.3-10 to type N cable assembly has a male to male gender configuration with 50 ohm corrugated 1/2" superflexible coax. The PE3W09405 4.3-10 male to type N male 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			1.4:1	
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: [4.3-10 Male to N Male Low PIM Cable Using 1/2 inch Superflexible Coax PE3W09405](#)



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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

#### 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 0.321 lbs [145.6 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  
 Outer Conductor Material and Plating Helically Corrugated Copper Tube  
 Jacket Material PE, Black  
 Jacket Diameter 0.519 in [13.18 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	4.3-10 Male	N Male
Specification		IEC 60169-16
Impedance	50 Ohms	50 Ohms
Mating Cycles	100	
Contact Material and Plating	Brass, Silver	Spring Copper, Silver
Contact Plating Specification		5 µm minimum
Dielectric Type	PTFE	TPX
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	Brass, Nickel
Coupling Nut Plating Specification		5 µm minimum
Hex Size	22 mm	20 mm

**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

**PE3W09405**

#### How to Order

Part Number Configuration:

**PE3W09405**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W09405-12 = 12 inches long cable  
PE3W09405-100cm = 100 cm long cable

4.3-10 Male to N Male Low PIM Cable Using 1/2 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.

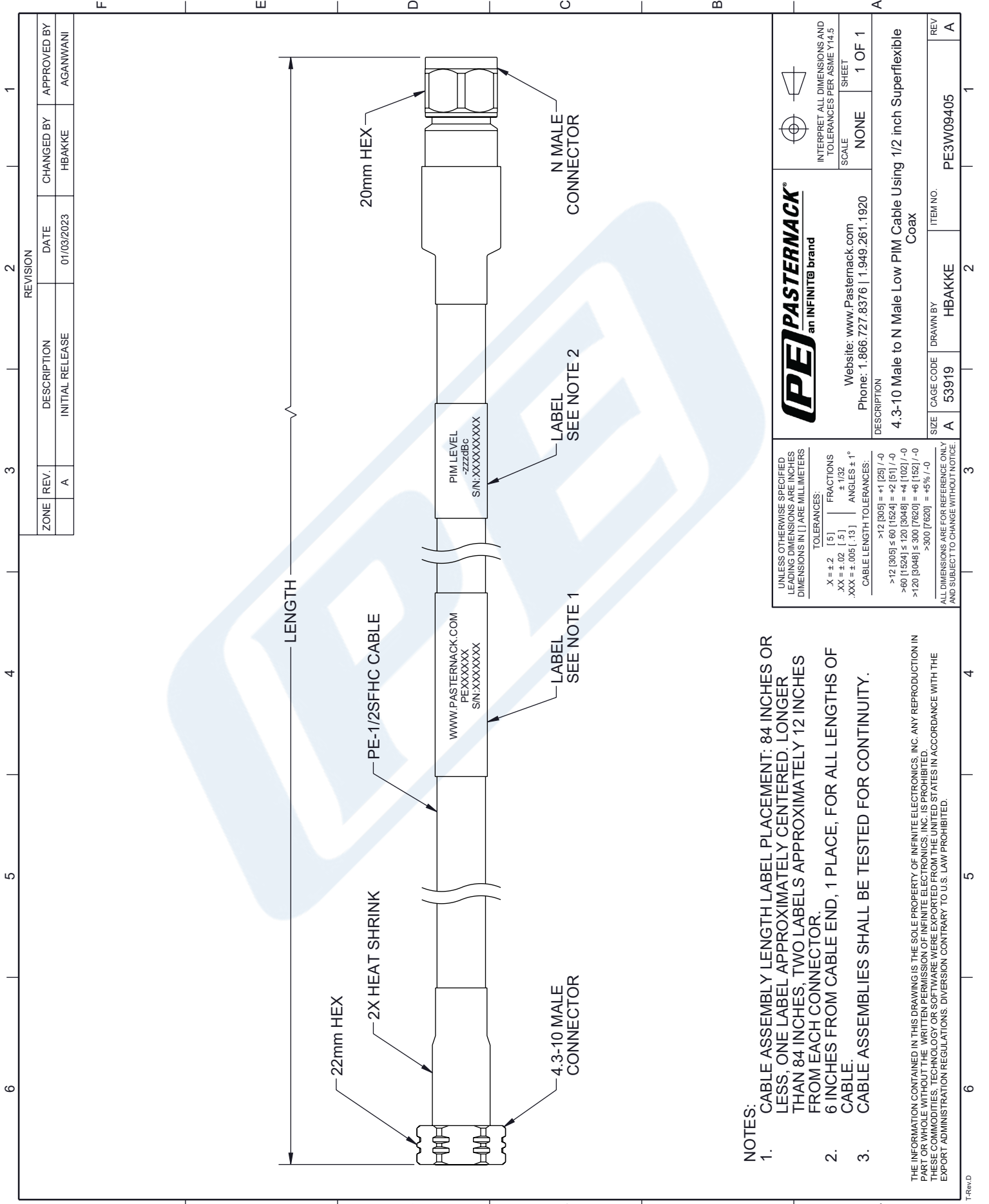
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male to N Male Low PIM Cable Using 1/2 inch Superflexible Coax PE3W09405](https://www.pasternack.com/4.3-10-male-to-n-male-low-pim-cable-using-1-2-inch-superflexible-pe3w09405-p.aspx)

URL: <https://www.pasternack.com/4.3-10-male-to-n-male-low-pim-cable-using-1-2-inch-superflexible-pe3w09405-p.aspx>

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# PE3W09405 CAD Drawing

## 4.3-10 Male to N Male Low PIM Cable Using 1/2 inch Superflexible Coax



- NOTES:**
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 84 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROXIMATELY 12 INCHES FROM EACH CONNECTOR.
  - 6 INCHES FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: <a href="http://www.Pastermack.com">www.Pastermack.com</a> Phone: 1.866.727.8376   1.949.261.1920		DESCRIPTION: 4.3-10 Male to N Male Low PIM Cable Using 1/2 inch Superflexible Coax	
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	TOLERANCES: X = ±.2 [5] FRACTIONS ± 1/32 .XX = ±.02 [5] ANGLES ± 1° .XXX = ±.005 [13]	CABLE LENGTH TOLERANCES: >12 [305] = +1 [25] / -0 >60 [1524] ≤ 60 [1524] = -2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE		SIZE: A CAGE CODE: 53919 DRAWN BY: HBAKKE	ITEM NO.: PE3W09405 REV: A