



## N Male to N Male Cable 48 Inch Length Using 1/4 inch Superflexible Coax

### RF Cable Assemblies Technical Data Sheet

PE3C0124-48

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: 1/4" Superflexible

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.21:1	
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]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		2.53 [8.3]		$\Omega$ /1000ft [ $\Omega$ /Km]
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
VSWR (Max.)	1.21:1	1.21:1	1.21:1	1.21:1	1.21:1	
Return Loss (Max.)	20.44	20.444	20.444	20.444	20.481	dB

#### Mechanical Specifications

##### Cable Assembly

Length	48 in [121.92 cm]
Diameter	0.748 in [19 mm]
Weight	1.792 lbs [812.84 g]

##### Cable

Cable Type	1/4" Superflexible
Impedance	50 Ohms
Inner Conductor Type	Solid

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 Male Cable 48 Inch Length Using 1/4 inch Superflexible Coax PE3C0124-48](#)



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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]

#### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Spring Copper, Silver	Spring Copper, Silver
Contact Plating Specification	200 [5] $\mu$ in. [ $\mu$ m] minimum	200 [5] $\mu$ in. [ $\mu$ m] minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Outer Conductor Plating Specification	78 [2] $\mu$ in. [ $\mu$ m] minimum	78 [2] $\mu$ in. [ $\mu$ m] minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	200 [5] $\mu$ in. [ $\mu$ m] minimum	200 [5] $\mu$ in. [ $\mu$ m] minimum
Hex Size	19 mm	19 mm
Torque	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	78 [2] $\mu$ in. [ $\mu$ m] minimum	78 [2] $\mu$ in. [ $\mu$ m] minimum

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

Yes

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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PE3C0124-48

**How to Order**

Part Number Configuration:

**PE3C0124**

- **xx**

**uu**

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

Example: PE3C0124-12 = 12 inches long cable  
PE3C0124-100cm = 100 cm long cable

N Male to N Male Cable 48 Inch Length Using 1/4 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% availability and are part of the broadest selection in the industry.

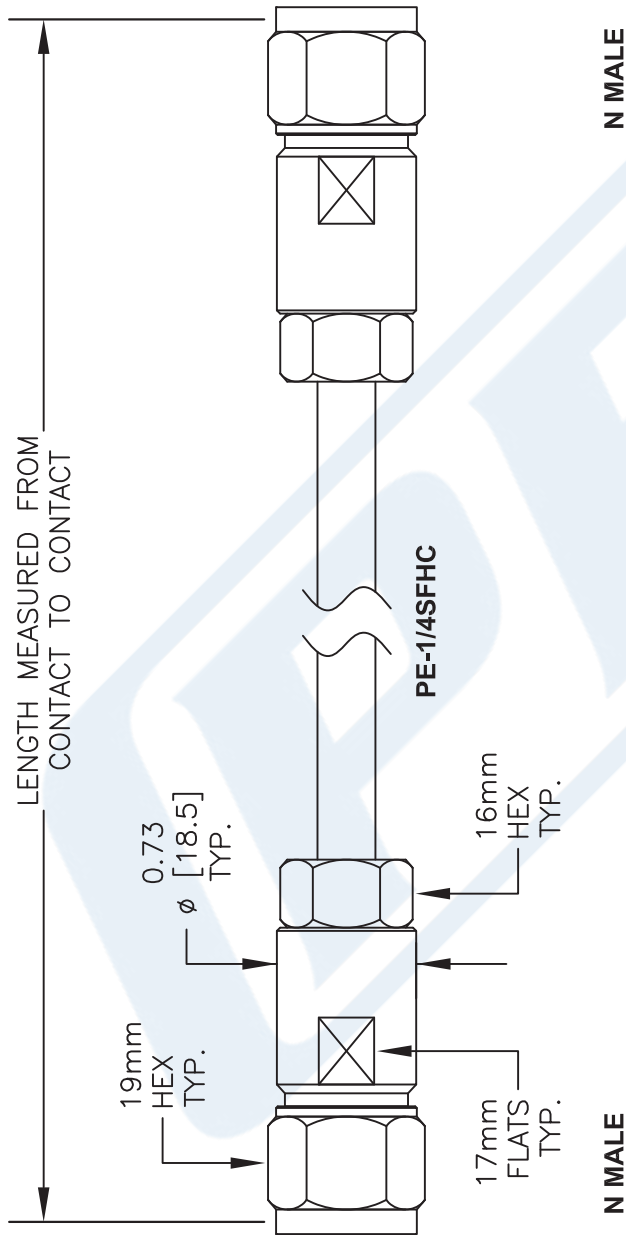
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Cable 48 Inch Length Using 1/4 inch Superflexible Coax PE3C0124-48](#)

URL: <http://www.pasternack.com/n-male-n-male-pe-1-4-sfhc-cable-assembly-pe3c0124-48-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.

# PE3C0124-48 CAD Drawing

N Male to N Male Cable 48 Inch Length Using 1/4 inch Superflexible Coax



How To Order					
<div>Part Number Configuration</div> <div>PE3 <div>zzz</div> <div>yy</div> - <div>xx</div> <div>uu</div></div> <div>00 - 99999</div> <div>LF = RoHS Compliant &lt; Blank &gt; = Standard</div> <div>Note: LF applies only to RF cables</div>		<div>Examples</div> <div>PE3000LF-100</div> <div>PE3000-100</div> <div>PE3000LF-100CM</div> <div>PE3000-100CM</div>	Part # Ext.	Length In Inches	Length In Centimeters
			-12	12"	-25CM 25Cm
			-24	24"	-50CM 50Cm
			-36	36"	-75CM 75Cm
			-48	48"	-100CM 100Cm
			-60	60"	-125CM 125Cm
			-xx	Custom Length	-xxCM Custom Length

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].  
 4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

**PASTERNAK®**  
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DWG TITLE

**PE3C0124**

FSCM NO. 53919

CAD FILE 080713

SCALE N/A

SIZE A

2233