



## N Male to N Female Cable 18 Inch Length Using PE-SR401AL Coax

### RF Cable Assemblies Technical Data Sheet

PE3988-18

#### Configuration

- Connector 1: N Male
- Connector 2: N Female
- Cable Type: PE-SR401AL-STRAIGHT

#### Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3988-18 type N male to type N female 18 inch cable using PE-SR401AL coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack type N to type N cable assembly has a male to female gender configuration with 50 ohm semi-rigid PE-SR401AL-STRAIGHT coax. The PE3988-18 type N male to type N female cable assembly operates to 18 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		18	GHz
Velocity of Propagation		69.5		%
Capacitance		29.6 [97.11]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			7,500	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	5	10	18	GHz
Insertion Loss (Typ.)	4.5	7.5	22	33	48	dB
Power Handling (Max.)	962	661	265	174	100	W

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 Female Cable 18 Inch Length Using PE-SR401AL Coax PE3988-18](#)



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#### Mechanical Specifications

##### Cable Assembly

Length*	18 in [457.2 mm]
Weight	0.305 lbs [138.35 g]

##### Cable

Cable Type	PE-SR401AL-STRAIGHT
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Aluminum
Jacket Diameter	0.25 in [6.35 mm]

One Time Minimum Bend Radius	0.25 in [6.35 mm]
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#### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	30μ in. minimum	
Dielectric Type	Teflon	
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3μ in. minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100μ in. minimum	

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

Cable assemblies that are 60 inches or less use straight coax, greater than 60 inches use coiled coax

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

#### Plotted and Other Data

##### Notes:

- Values at 25°C, sea level.

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 Female Cable 18 Inch Length Using PE-SR401AL Coax PE3988-18](#)



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#### How to Order

Part Number Configuration:

PE3988

- xx

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

Example: PE3988-12 = 12 inches long cable  
PE3988-100cm = 100 cm long cable

N Male to N Female Cable 18 Inch Length Using PE-SR401AL 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: [N Male to N Female Cable 18 Inch Length Using PE-SR401AL Coax PE3988-18](https://www.pasternack.com/n-male-n-female-pe-sr401al-cable-assembly-pe3988-18-p.aspx)

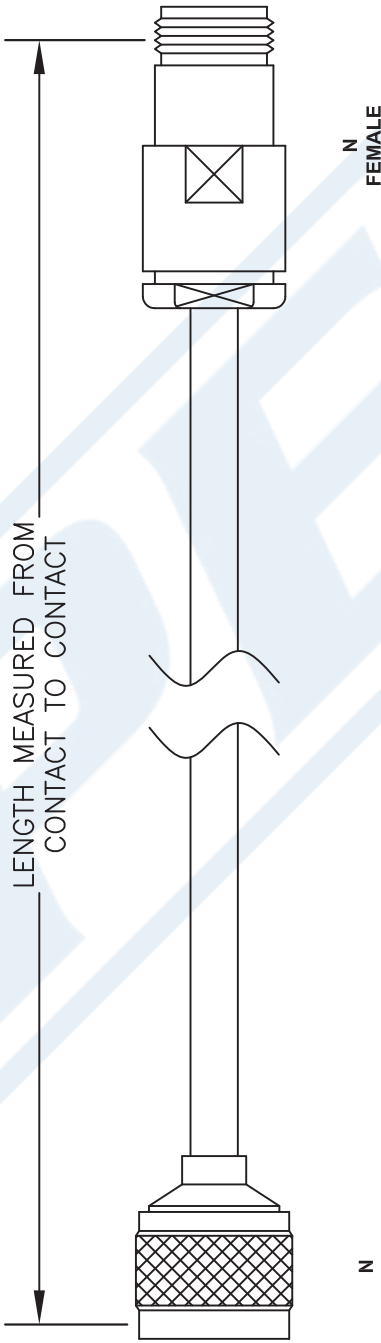
URL: <https://www.pasternack.com/n-male-n-female-pe-sr401al-cable-assembly-pe3988-18-p.aspx>

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.

PE3988-18 CAD Drawing

N Male to N Female Cable 18 Inch Length Using PE-SR401AL Coax

Standard Lengths	
-12	12"
-24	24"
-36	36"
-48	48"
-60	60"
-XXX	Custom Length in Inches



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.

DWG TITLE  
**PE3988-XX**

REV. -	FSCM NO. 53919	CAD FILE 081307	SCALE N/A	SIZE A	127
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