



N Male to N Male Low PIM Cable 168 Inch Length Using  
1/2 inch Flexible Coax, RoHS

TECHNICAL DATA SHEET

PE39805-168

Pasternack's corrugated cable assemblies are ideal for applications where durability and high power are needed. These high quality 50 ohm cable assemblies are constructed with a solid copper clad aluminum inner conductor, a foam dielectric, corrugated copper tube, and a tough polyethylene jacket. The solid inner and outer conductors are design to help minimize Intermodulation Distortion (IMD) in communications applications. Durability is ensured thanks to the Injected molded boot on the connectors for added strain relief. Our carefully selected assemblies provide the highest quality on the market with PIM ratings of -160 dBc and 1.11 VSWR's. Available in 1/2" Flexible and 1/2" Superflexible cable types in 7/16 DIN and N Type connector configurations.

**Features**

- 1/2" Flexible and 1/2" Superflexible cable
- 100% RF and PIM tested
- Low Insertion loss
- Low VSWR at 2.7 GHz
- -160 dBc PIM rating
- Velocity of Propagation at 88%

**Configuration**

Connector 1	N Male
Connector 2	N Male
Cable Type	1/2" Flexible

**Electrical Specifications**

Frequency Range	DC to 2.7 GHz
Impedance	50 Ohms
Maximum VSWR	1.11:1
Velocity of Propagation	88 %
RF Shielding	120 dB
Peak Power	40 KWatts
Passive Intermodulation	-160 dBc

**Performance by Frequency**

**Frequency 1**

Frequency	900 MHz
VSWR	1.07:1
Insertion Loss	0.02 dB

**Frequency 2**

Frequency	1.8 GHz
VSWR	1.09:1
Insertion Loss	0.03 dB

**Frequency 3**

Frequency	2.2 GHz
VSWR	1.09:1
Insertion Loss	0.03 dB

**Frequency 4**

Frequency	2.7 GHz
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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 Low PIM Cable 168 Inch Length Using 1/2 inch Flexible Coax, RoHS PE39805-168](#)



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VSWR	1.11:1
Insertion Loss	0.04 dB

**Mechanical Specifications**

**Temperature**

Temperature Operating Range	-40 to +80 deg C
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**Size**

Length	168 in [426.72 cm]
Diameter	0.629 in [15.98 mm]
Weight	0.155 lbs [70.31 g]
Cable Color	Black
One Time Minimum Bend Radius	2.75 in [69.85 mm]
Repeated Minimum Bend Radius	4.72 in [119.89 mm]

**Cable**

Cable Type	1/2" Flexible
Inner Conductor Type	Solid
Cable Inner Conductor	Copper Clad Aluminum
No of Shields	1
Dielectric Type	PE (F)
Jacket Material	PE
Jacket Diameter	0.629 in [15.98 mm]

**Connector 1**

Type	N Male
Configuration	Straight
Mating Cycles	500
Inner Conductor Material and Plating	Brass, Silver
Outer Conductor Material and Plating	Brass, Silver
Coupling Nut Material and Plating	Brass, Tri-Metal
Hex Size	19 mm
Torque	9.7 in-lbs [1.1 Nm]
Body Material and Plating	Brass, Silver
Dielectric Type	PTFE

**Connector 2**

Type	N Male
Configuration	Straight
Mating Cycles	500
Inner Conductor Material and Plating	Brass, Silver
Outer Conductor Material and Plating	Brass, Silver
Coupling Nut Material and Plating	Brass, Tri-Metal
Hex Size	19 mm
Torque	9.7 in-lbs [1.1 Nm]
Body Material and Plating	Brass, Silver

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Dielectric Type

PTFE

**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

**How to Order**

Part Number Configuration:

**PE39805-168**

- xx

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

Example: PE39805-168-12 = 12 inches long cable  
PE39805-168-100cm = 100 cm long cable

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1/2 inch Flexible Coax, RoHS 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.

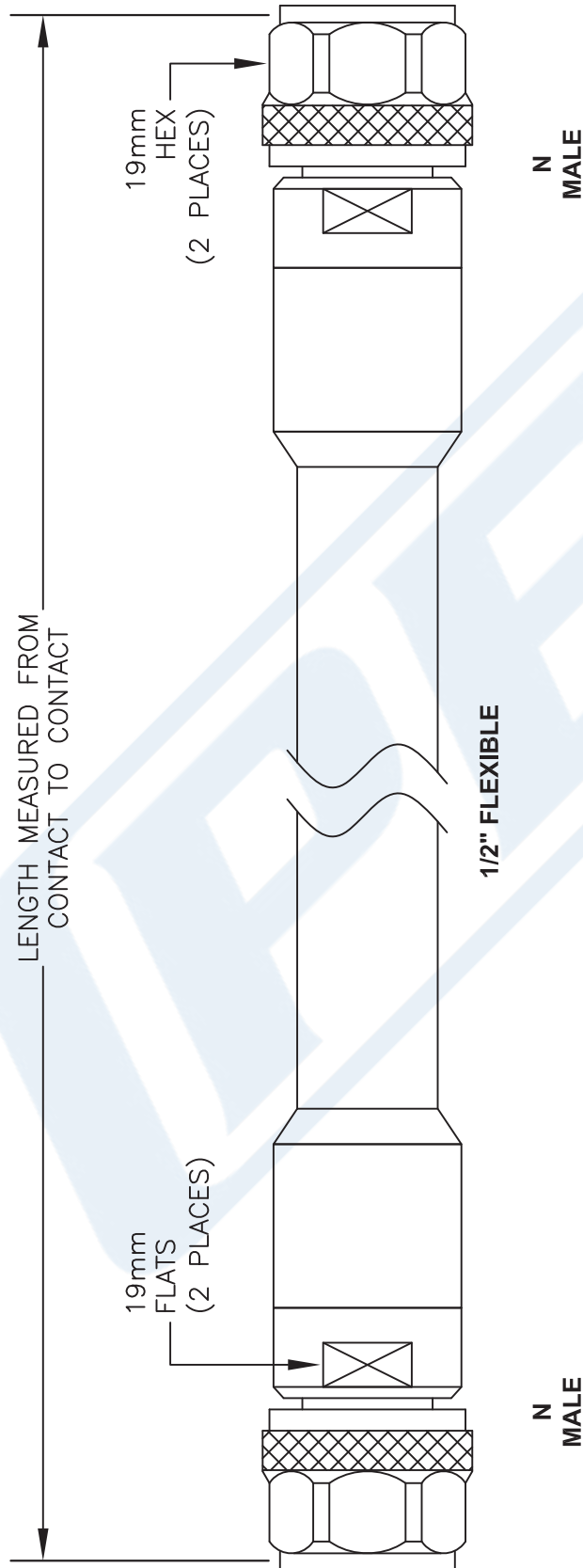
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Low PIM Cable 168 Inch Length Using 1/2 inch Flexible Coax, RoHS PE39805-168](http://www.pasternack.com/n-male-n-male-pe-1-2-fac-cable-assembly-pe39805-168-p.aspx)

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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.

# PE39805-168 CAD Drawing

N Male to N Male Low PIM Cable 168 Inch Length Using  
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DWG TITLE

**PE39805**

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.

FSCM NO. 53919

CAD FILE 120314

SCALE N/A

SIZE A

2233

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE

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