



## 7/16 DIN Male to 7/16 DIN Male Low PIM Cable 168 Inch Length Using 1/2 inch Flexible Coax, RoHS

### TECHNICAL DATA SHEET

PE39802-168

#### 1/2" Flexible Coax Low PIM Assembly

High Performance Factory Assembled Corrugated Coaxial Cable Jumpers

- Soldering Technology and connector design provides a very durable assembly with superior PIM and VSWR performance.
- Carefully selected assemblies provide the highest quality available on the market today.
- 100% electrical tested for PIM and VSWR ensuring optimum installed performance.
- Available in 1/2" Flexible and 1/2" Superflexible cables in any length, offering the best cable solution for the required performance and application.
- Injection molded boot for added strain relief and weather sealing ensuring long term durability.
- PE39802 1/2" Flexible cable assemblies are available in standard lengths of 36, 48, 72, 96, 120, 144, 168, 192, and 240 inches. Custom lengths available on request.

#### Configuration

Connector 1	7/16 DIN Male
Connector 2	7/16 DIN Male
Cable Type	1/2" Flexible

#### Electrical Specifications

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

#### Typical Performance by Frequency

##### Frequency 1

Frequency, MHz	900
VSWR	1.07:1
Insertion Loss	0.02 dB/ft + 0.1 dB [ 0.07 dB/m + 0.1 dB ]

##### Frequency 2

Frequency, GHz	1.8
VSWR	1.09:1
Insertion Loss	0.03 dB/ft + 0.1 [ 0.1 dB/m + 0.1 dB ]

##### Frequency 3

Frequency, GHz	2.2
VSWR	1.09:1
Insertion Loss	0.034 dB/ft + 0.1 dB [ 0.11 dB/m + 0.1 dB ]

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 7/16 DIN Male Low PIM Cable 168 Inch Length Using 1/2 inch Flexible Coax, RoHS PE39802-168](#)

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.





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#### Frequency 4

Frequency, GHz	2.7
VSWR	1.11:1
Insertion Loss	0.04 dB/ft + 0.1 dB [ 0.13 dB/m + 0.1 dB ]

#### Mechanical Specifications

##### Cable Assembly

Cable Type	1/2" Flexible
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##### Temperature

Temperature Operating Range, deg C	-40 to +80
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##### Size

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

##### Cable

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

##### Connector 1

Type	7/16 DIN Male
Configuration	Straight
Inner Conductor Material and Plating	Brass, Silver
Outer Conductor Material and Plating	Brass, Silver
Coupling Nut Material and Plating	Brass, Tri-Metal
Hex Size, mm	32
Torque, ft-lbs [Nm]	18.417 [24.97]
Body Material and Plating	Brass, Silver
Dielectric Type	PTFE

##### Connector 2

Type	7/16 DIN Male
Configuration	Straight
Inner Conductor Material and Plating	Brass, Silver
Outer Conductor Material and Plating	Brass, Silver

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Coupling Nut Material and Plating	Brass, Tri-Metal
Hex Size, mm	32
Torque, ft-lbs [Nm]	18.417 [24.97]
Body Material and Plating	Brass, Silver
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

7/16 DIN Male to 7/16 DIN Male Low PIM Cable 168 Inch Length Using 1/2 inch Flexible Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

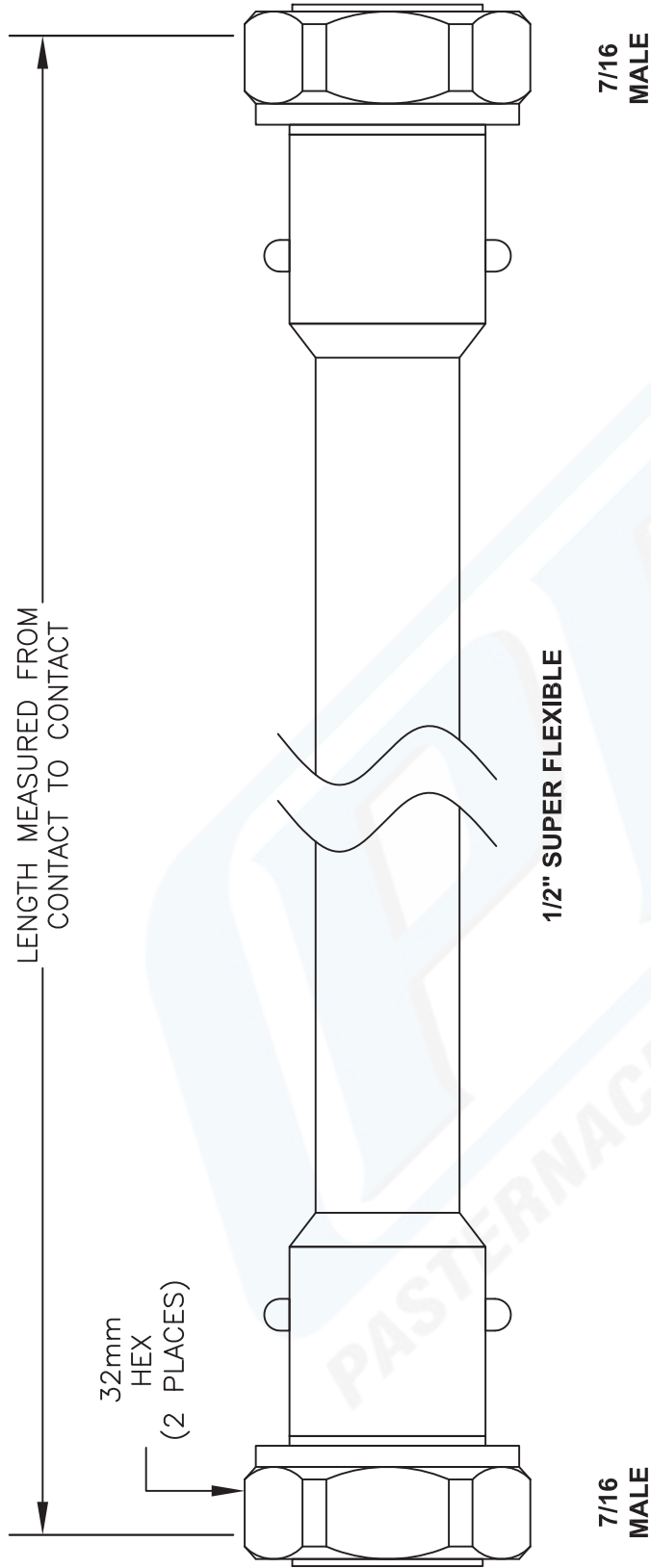
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**PE39802-168 CAD Drawing**  
 7/16 DIN Male to 7/16 DIN Male Low PIM Cable 168 Inch  
 Length Using 1/2 inch Flexible Coax, RoHS



Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
-36	36"	-	-
-48	48"	-	-
-72	72"	-	-
-96	96"	-	-
-120	120"	-	-
-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 ± 1.5% OR 3/8", WHICHEVER IS GREATER.

**How To Order**

Part Number Configuration: PE3 [zzz] [yy] - [xx] [uu]

00 - 99999 ————  
 LF = Lead Free  
 < Blank > = Standard  
 Note: LF applies only to RF cables

Examples:  
 PE3000LF-100  
 PE3000-100  
 PE3000LF-100CM  
 PE3000-100CM

CM = Centimeters  
 < Blank > = Inches  
 Length

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**COAXIAL & FIBER OPTICS**

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REV. -	FSCM NO. 53919	CAD FILE 041612	SCALE N/A	SIZE A	2233
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