



## 7/16 DIN Male to 7/16 DIN Male Low PIM Cable 96 Inch Length Using 1/2 inch Superflexible Coax, RoHS

### TECHNICAL DATA SHEET

PE39803-96

#### 1/2" Superflexible 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.
- PE39803 1/2" Superflexible 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" Superflexible

#### Electrical Specifications

Frequency Range, GHz	DC to 2.7
Impedance, Ohms	50
Maximum VSWR	1.11:1
Velocity of Propagation, %	83
RF Shielding, dB	120
Peak Power, KWatts	16
Passive Intermodulation, dBc	-160

#### Typical Performance by Frequency

##### Frequency 1

Frequency, MHz	900
VSWR	1.07:1
Insertion Loss	0.032 dB/ft + 0.1 dB [ 0.1 dB/m + 0.1 dB ]

##### Frequency 2

Frequency, GHz	1.8
VSWR	1.09:1
Insertion Loss	0.047 dB/ft + 0.1 [ 0.15 dB/m + 0.1 dB ]

##### Frequency 3

Frequency, GHz	2.2
VSWR	1.09:1
Insertion Loss	0.053 dB/ft + 0.1 dB [ 0.17 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 96 Inch Length Using 1/2 inch Superflexible Coax, RoHS PE39803-96](#)

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	0.06 dB/ft + 0.1 dB [ 0.2 dB/m + 0.1 dB ]

**Mechanical Specifications**

**Cable Assembly**

Cable Type	1/2" Superflexible
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**Temperature**

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

Length, in [cm]	96 [243.84]
Diameter, in [mm]	0.535 [13.59]
Weight, lbs [g]	0.129 [58.51]
Cable Color	Black
One Time Minimum Bend Radius, in [mm]	0.6 [15.24]
Repeated Minimum Bend Radius, in [mm]	1.18 [29.97]

**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]	0.535 [13.59]

**Connector 1**

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

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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, Tri-Metal
Dielectric Type	PTFE

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

RoHS Compliant	Yes
REACH Compliant	06/18/2012

**Plotted and Other Data**

Notes: Values at 25 °C, sea level

7/16 DIN Male to 7/16 DIN Male Low PIM Cable 96 Inch Length Using 1/2 inch Superflexible 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.

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 96 Inch Length Using 1/2 inch Superflexible Coax, RoHS PE39803-96](http://www.pasternack.com/7-16-DIN-Male-to-7-16-DIN-Male-Low-PIM-Cable-96-Inch-Length-Using-1-2-Inch-Superflexible-Coax-RoHS-PE39803-96)

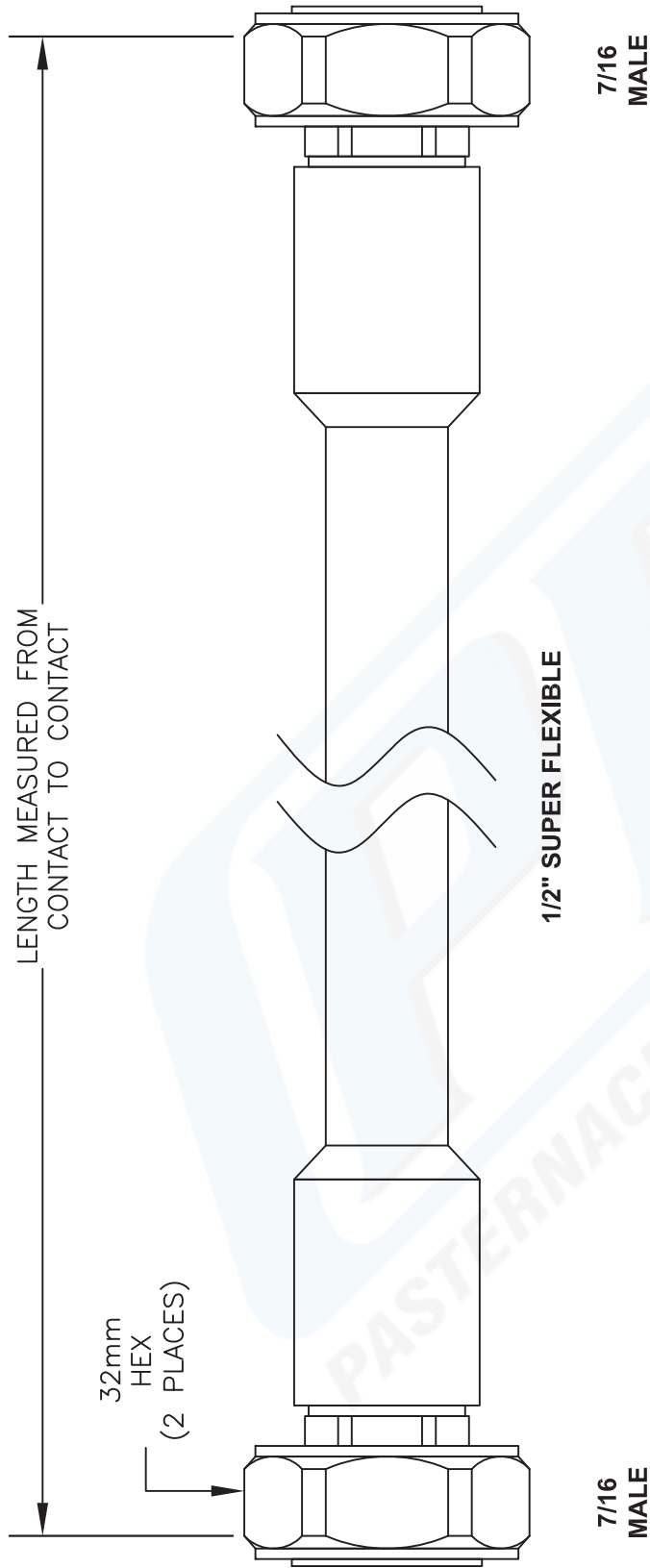
URL: <http://www.pasternack.com/7-16-MALE-7-16-MALE-1-2-Super-Flexible-Cable-PE39803-96-p.aspx>

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# PE39803-96 CAD Drawing

7/16 DIN Male to 7/16 DIN Male Low PIM Cable 96 Inch  
Length Using 1/2 inch Superflexible 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  $\pm 1.5\%$  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

DWG TITLE  
**PE39803**

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**COAXIAL & FIBER OPTICS**  
**ESTABLISHED 1972**

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