



7/16 DIN Male to 7/16 DIN Male Low PIM Cable 192 Inch  
Length Using 1/2 inch Superflexible Coax, RoHS

TECHNICAL DATA SHEET

PE39803-192

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

**Electrical Specifications**

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

**Performance by Frequency**

**Frequency 1**

Frequency	900 MHz
VSWR	1.07:1
Insertion Loss	0.032 dB

**Frequency 2**

Frequency	1.8 GHz
VSWR	1.09:1
Insertion Loss	0.047 dB

**Frequency 3**

Frequency	2.2 GHz
VSWR	1.09:1
Insertion Loss	0.053 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: [7/16 DIN Male to 7/16 DIN Male Low PIM Cable 192 Inch Length Using 1/2 inch Superflexible Coax, RoHS PE39803-192](#)



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VSWR	1.11:1
Insertion Loss	0.06 dB

**Mechanical Specifications**

**Temperature**

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

Length	192 in [487.68 cm]
Diameter	0.535 in [13.59 mm]
Weight	0.129 lbs [58.51 g]
Cable Color	Black
One Time Minimum Bend Radius	0.6 in [15.24 mm]
Repeated Minimum Bend Radius	1.18 in [29.97 mm]

**Cable**

Cable Type	1/2" Superflexible
Inner Conductor Type	Solid
Cable Inner Conductor	Copper Clad Aluminum
No of Shields	1
Dielectric Type	PE (F)
Jacket Material	PE
Jacket Diameter	0.535 in [13.59 mm]

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

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 192 Inch Length Using 1/2 inch Superflexible Coax, RoHS PE39803-192](#)



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**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:

**PE39803-192**

- xx

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

Example: PE39803-192-12 = 12 inches long cable  
PE39803-192-100cm = 100 cm long cable

7/16 DIN Male to 7/16 DIN Male Low PIM Cable 192 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 millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

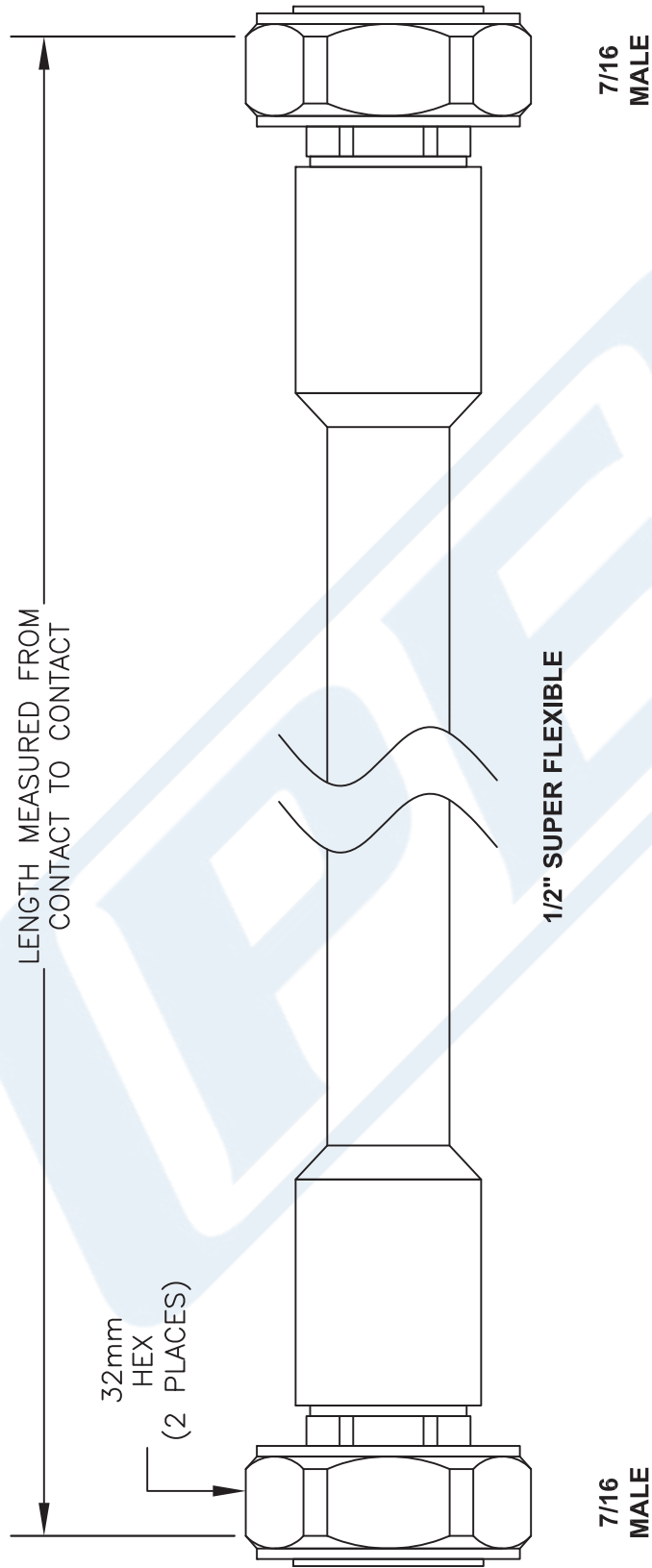
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male to 7/16 DIN Male Low PIM Cable 192 Inch Length Using 1/2 inch Superflexible Coax, RoHS PE39803-192](http://www.pasternack.com/7-16-DIN-Male-to-7-16-DIN-Male-Low-PIM-Cable-192-Inch-Length-Using-1-2-Inch-Superflexible-Coax-RoHS-PE39803-192)

URL: <http://www.pasternack.com/7-16-MALE-7-16-MALE-1-2-Super-Flexible-Cable-PE39803-192-p.aspx>

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# PE39803-192 CAD Drawing

7/16 DIN Male to 7/16 DIN Male Low PIM Cable 192 Inch  
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- 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

**PE39803**

FSCM NO. 53919

CAD FILE 120314

SCALE N/A

SIZE A

2233

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

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