PASTERNACK®
THE ENGINEER'S RF SOURCE

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

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" 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	0.034 dB

Frequency 4

Frequency	2.7 GHz

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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

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VSWR	1.11:1
Insertion Loss	0.04 dB

Mechanical Specifications

Temperature

Temperature Operating Range	-40 to +80 deg C

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	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	32 mm
Torque	18.417 ft-lbs [24.97 Nm]
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
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, Silver
Dielectric Type	PTFE

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Compliance Certifications (visit 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: **PE39802-168 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE39802-168 — Base Number

Example: PE39802-168-12 = 12 inches long cable
PE39802-168-100cm = 100 cm long cable

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 millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/7-16-male-7-16-male-1-2-flexible-cable-pe39802-168-p.aspx

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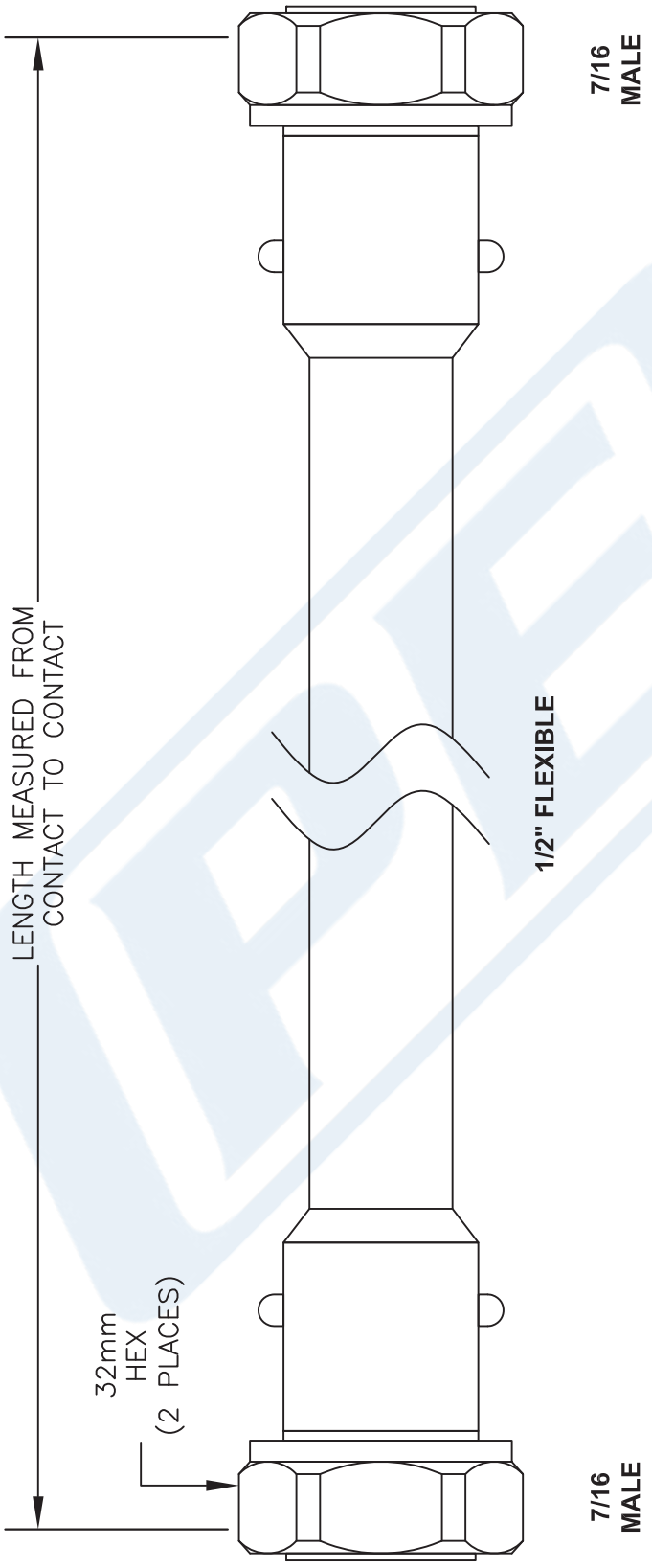
PE39802-168 CAD Drawing

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



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.

DWG TITLE PE39802	CAD FILE 120314	SCALE N/A	SIZE A
FSCM NO. 53919			2233

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