



## 7/16 DIN Male Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Flexible, PE-1/2FAC

### TECHNICAL DATA SHEET

PE44738

#### 7/16 DIN Male Connectors

These Pasternack Enterprises' high performance connectors are designed to fit on most commercially available 1/2" flexible, annular corrugated copper cables and aluminum cables. These connectors are perfect for applications requiring low PIM levels, with outstanding RF performance and are easy to install in the field.

Features of the new connectors include:

- Tri-metal coating resulting in a very durable surface with good corrosion protection while providing superior electrical conductivity and exceptional PIM performance
- PIM performance of  $\leq -160$  dBc. VSWR levels of  $\leq 1.10$  up to 3GHz
- Available in 7/16 DIN and Type N series with both male and female interfaces
- O Rings gaskets provide a reliable long term weather seal
- Designed to fit on most commercially available 1/2" corrugated copper and aluminum cables

#### Configuration

Connector	7/16 DIN Male
Connector Interface Type	1/2" Flexible, PE-1/2FAC
Cable Attachment Method (Shield/Contact)	Clamp/Non-Solder Contact
Connector Design	Low PIM
Body Style	Straight

#### Electrical Specifications

Frequency Range, GHz	DC to 3
Impedance, Ohms	50
Maximum VSWR	1.1:1
Maximum Insertion Loss, dB	0.1
Dielectric Withstanding Voltage, Vrms	4,000
Maximum Passive Intermodulation (2 x 20 Watts), dBc	-160

#### Mechanical Specifications

##### Temperature

Operating Range, deg C	-40 to +85
------------------------	------------

##### Size

Length, in [mm]	2.04 [51.82]
Width/Dia., in [mm]	1.26 [32.00]
Weight, lbs [g]	0.28 [127.01]

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 Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Flexible, PE-1/2FAC PE44738](#)

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.



7/16 DIN Male Low PIM Connector Clamp/Non-Solder  
Contact Attachment For 1/2" Flexible, PE-1/2FAC

TECHNICAL DATA SHEET

PE44738

**Connector**

Type	7/16 DIN Male
Mating Cycles	500
Contact Material and Plating	Spring Copper, Silver
Contact Plating Specification	200 [5] $\mu$ in. [ $\mu$ m] minimum
Outer Conductor Material and Plating	Brass, Tri-Metal
Outer Conductor Plating Specification	78 [2] $\mu$ in. [ $\mu$ m] minimum
Coupling Nut Material and Plating	Brass, Nickel
Coupling Nut Plating Specification	200 [5] $\mu$ in. [ $\mu$ m] minimum
Hex Size, mm	32
Torque, ft-lbs [Nm]	18.417 [24.97]
Body Material and Plating	Brass, Tri-Metal
Body Plating Specification	78 [2] $\mu$ in. [ $\mu$ m] minimum
Dielectric Type	TPX

**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 Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Flexible, PE-1/2FAC 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.

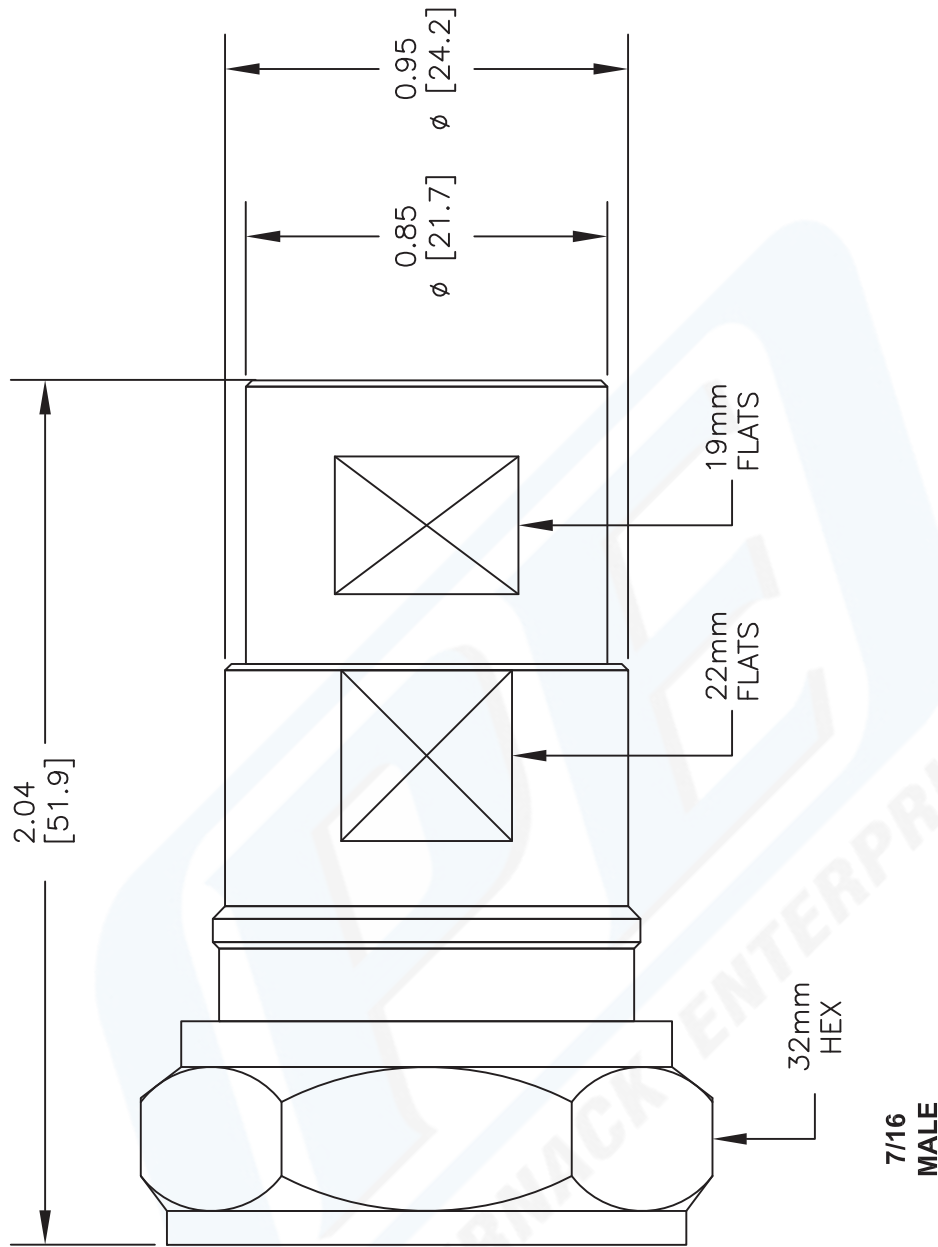
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Flexible, PE-1/2FAC PE44738](http://www.pasternack.com/7-16-male-standard-1-2-inch-flexible-pe-1-2sfhc-connector-pe44738-p.aspx)

URL: <http://www.pasternack.com/7-16-male-standard-1-2-inch-flexible-pe-1-2sfhc-connector-pe44738-p.aspx>

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.

# PE44738 CAD Drawing

7/16 DIN Male Low PIM Connector Clamp/Non-Solder  
Contact Attachment For 1/2" Flexible, PE-1/2FAC



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].

DWG TITLE

**PE44738**

REV. -

FSCM NO. 53919

DATE 081612

SCALE N/A

SIZE A

2233

**PASTERNAK ENTERPRISES, INC.**

P.O. BOX 16759, IRVINE, CA 92623

PHONE (949) 261-1920 FAX (949) 261-7451

WEB ADDRESS: [www.pasternack.com](http://www.pasternack.com)

E-MAIL ADDRESS: [sales@pasternack.com](mailto:sales@pasternack.com)

COAXIAL & FIBER OPTICS





## 7/16 DIN Male Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Flexible, PE-1/2FAC

### TECHNICAL DATA SHEET

PE44738

#### 7/16 DIN Male Connectors

These Pasternack Enterprises' high performance connectors are designed to fit on most commercially available 1/2" flexible, annular corrugated copper cables and aluminum cables. These connectors are perfect for applications requiring low PIM levels, with outstanding RF performance and are easy to install in the field.

Features of the new connectors include:

- Tri-metal coating resulting in a very durable surface with good corrosion protection while providing superior electrical conductivity and exceptional PIM performance
- PIM performance of  $\leq -160$  dBc. VSWR levels of  $\leq 1.10$  up to 3GHz
- Available in 7/16 DIN and Type N series with both male and female interfaces
- O Rings gaskets provide a reliable long term weather seal
- Designed to fit on most commercially available 1/2" corrugated copper and aluminum cables

#### Configuration

Connector	7/16 DIN Male
Connector Interface Type	1/2" Flexible, PE-1/2FAC
Cable Attachment Method (Shield/Contact)	Clamp/Non-Solder Contact
Connector Design	Low PIM
Body Style	Straight

#### Electrical Specifications

Frequency Range, GHz	DC to 3
Impedance, Ohms	50
Maximum VSWR	1.1:1
Maximum Insertion Loss, dB	0.1
Dielectric Withstanding Voltage, Vrms	4,000
Maximum Passive Intermodulation (2 x 20 Watts), dBc	-160

#### Mechanical Specifications

##### Temperature

Operating Range, deg C	-40 to +85
------------------------	------------

##### Size

Length, in [mm]	2.04 [51.82]
Width/Dia., in [mm]	1.26 [32.00]
Weight, lbs [g]	0.28 [127.01]

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 Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Flexible, PE-1/2FAC PE44738](#)

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.



7/16 DIN Male Low PIM Connector Clamp/Non-Solder  
Contact Attachment For 1/2" Flexible, PE-1/2FAC

TECHNICAL DATA SHEET

PE44738

**Connector**

Type	7/16 DIN Male
Mating Cycles	500
Contact Material and Plating	Spring Copper, Silver
Contact Plating Specification	200 [5] $\mu$ in. [ $\mu$ m] minimum
Outer Conductor Material and Plating	Brass, Tri-Metal
Outer Conductor Plating Specification	78 [2] $\mu$ in. [ $\mu$ m] minimum
Coupling Nut Material and Plating	Brass, Nickel
Coupling Nut Plating Specification	200 [5] $\mu$ in. [ $\mu$ m] minimum
Hex Size, mm	32
Torque, ft-lbs [Nm]	18.417 [24.97]
Body Material and Plating	Brass, Tri-Metal
Body Plating Specification	78 [2] $\mu$ in. [ $\mu$ m] minimum
Dielectric Type	TPX

**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 Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Flexible, PE-1/2FAC 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.

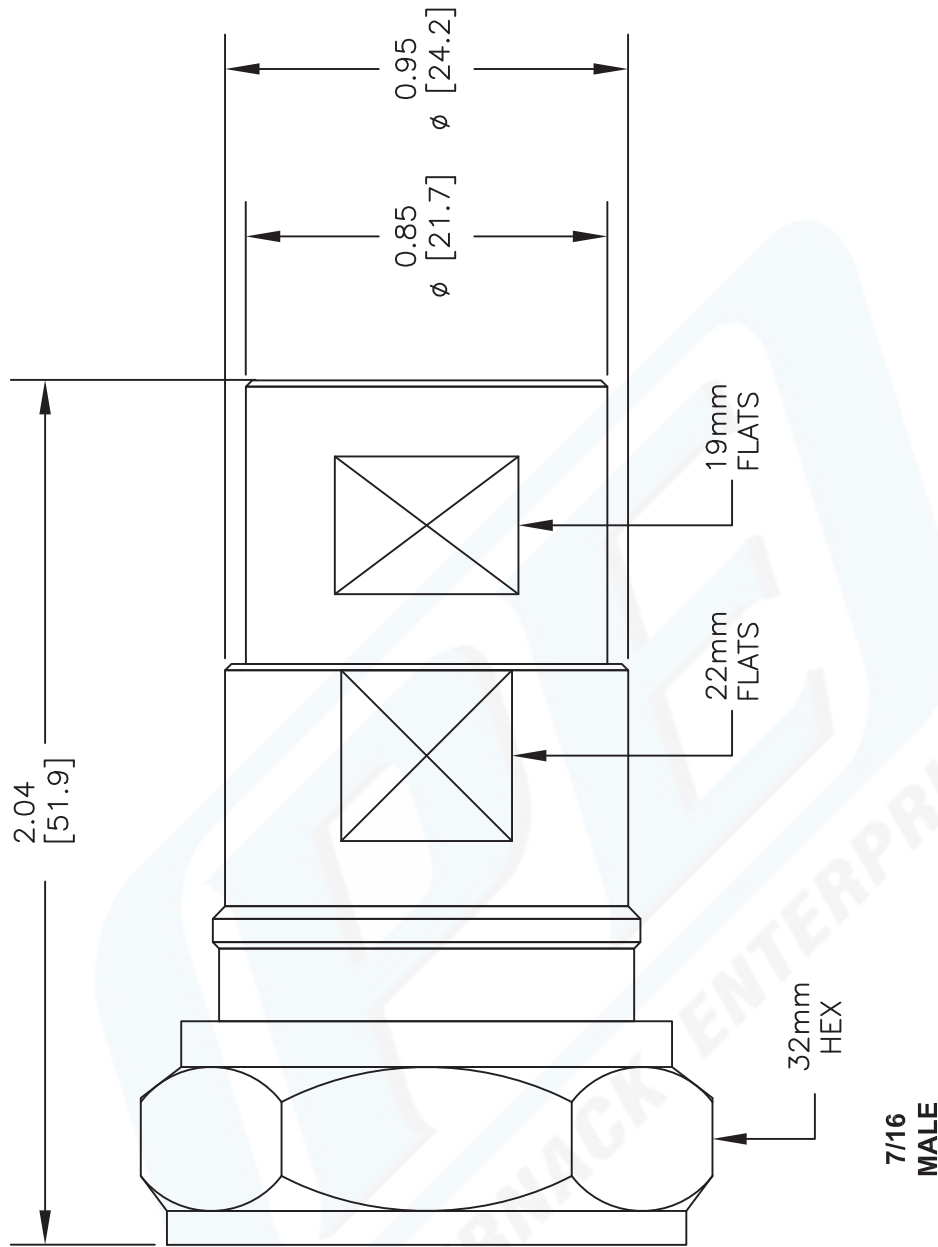
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Flexible, PE-1/2FAC PE44738](http://www.pasternack.com/7-16-male-standard-1-2-inch-flexible-pe-1-2sfhc-connector-pe44738-p.aspx)

URL: <http://www.pasternack.com/7-16-male-standard-1-2-inch-flexible-pe-1-2sfhc-connector-pe44738-p.aspx>

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.

# PE44738 CAD Drawing

7/16 DIN Male Low PIM Connector Clamp/Non-Solder  
Contact Attachment For 1/2" Flexible, PE-1/2FAC



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].

DWG TITLE

**PE44738**

REV. -

FSCM NO. 53919

DATE 081612

SCALE N/A

SIZE A

2233

**PASTERNAK ENTERPRISES, INC.**

P.O. BOX 16759, IRVINE, CA 92623

PHONE (949) 261-1920 FAX (949) 261-7451

WEB ADDRESS: [www.pasternack.com](http://www.pasternack.com)

E-MAIL ADDRESS: [sales@pasternack.com](mailto:sales@pasternack.com)

COAXIAL & FIBER OPTICS





## Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket

### RF Cables Technical Data Sheet

PE-1/2FAC

#### Configuration

- Low Loss Corrugated Cable
- 1 Shield(s)

#### Features

- Low Passive Intermodulation
- Solid copper outer conductor provides the highest possible RF shielding
- Flexible annularly corrugated copper outer conductor
- enables a small bending radius
- Excellent return loss performance
- Highly Foamed dielectric provides low attenuation

#### Description

Our corrugated cables and Low PIM connector combinations result in cable assemblies with excellent Passive Intermodulation performance. Solid copper outer conductors provide the highest possible RF shielding. This Flexible cable features excellent return loss performance. The highly foamed dielectric and optimized dimensions of these cables result in excellent low attenuation values. The flexible annularly corrugated copper outer conductor allows for a small bending radius.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8.8	GHz
Cutoff Frequency		10		GHz
Impedance		50		Ohms
Velocity of Propagation		88		%
Shielding Effectiveness	120			dB
Dielectric Withstanding Voltage (DC)			1,590	Vdc
Jacket Spark			2,000	Vrms
Inner Conductor DC Resistance			0.49	Ohms/1000ft
Outer Conductor DC Resistance			0.73	Ohms/1000ft
Nominal Capacitance		23.2 [76.12]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket PE-1/2FAC](#)



## Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket

### RF Cables Technical Data Sheet

PE-1/2FAC

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.45	0.8	1	1.8	GHz
Attenuation, Typ	0.6	1.4	1.9	2.2	3	dB/100ft
	1.97	4.59	6.23	7.22	9.84	dB/100m
Input Power (CW), Max	3,920	1,760	1,280	1,120	810	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	2.2	2.5	2.7	3		GHz
Attenuation, Typ	3.4	3.7	3.8	4		dB/100ft
	11.15	12.14	12.47	13.12		dB/100m
Input Power (CW), Max	720	660	630	590		Watts

#### Mechanical Specifications

Diameter	0.629 in [15.98 mm]
Weight	0.154 lbs/ft [0.23 Kg/m]
Number of Bends, Min	15
Min. Bend Radius (Installation)	2.75 in [69.85 mm]
Min. Bend Radius (Repeated)	4.72 in [119.89 mm]
Tensile Strength	270 lbs [122.47 Kg]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum, 1 Strands	0.189 in [4.8 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.476 in [12.09 mm]
First Shield	Annular Corrugated Copper Tube	
Jacket	PE, Black	0.629 in [15.98 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket PE-1/2FAC](#)



## Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket

### RF Cables Technical Data Sheet

PE-1/2FAC

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +85 deg C

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

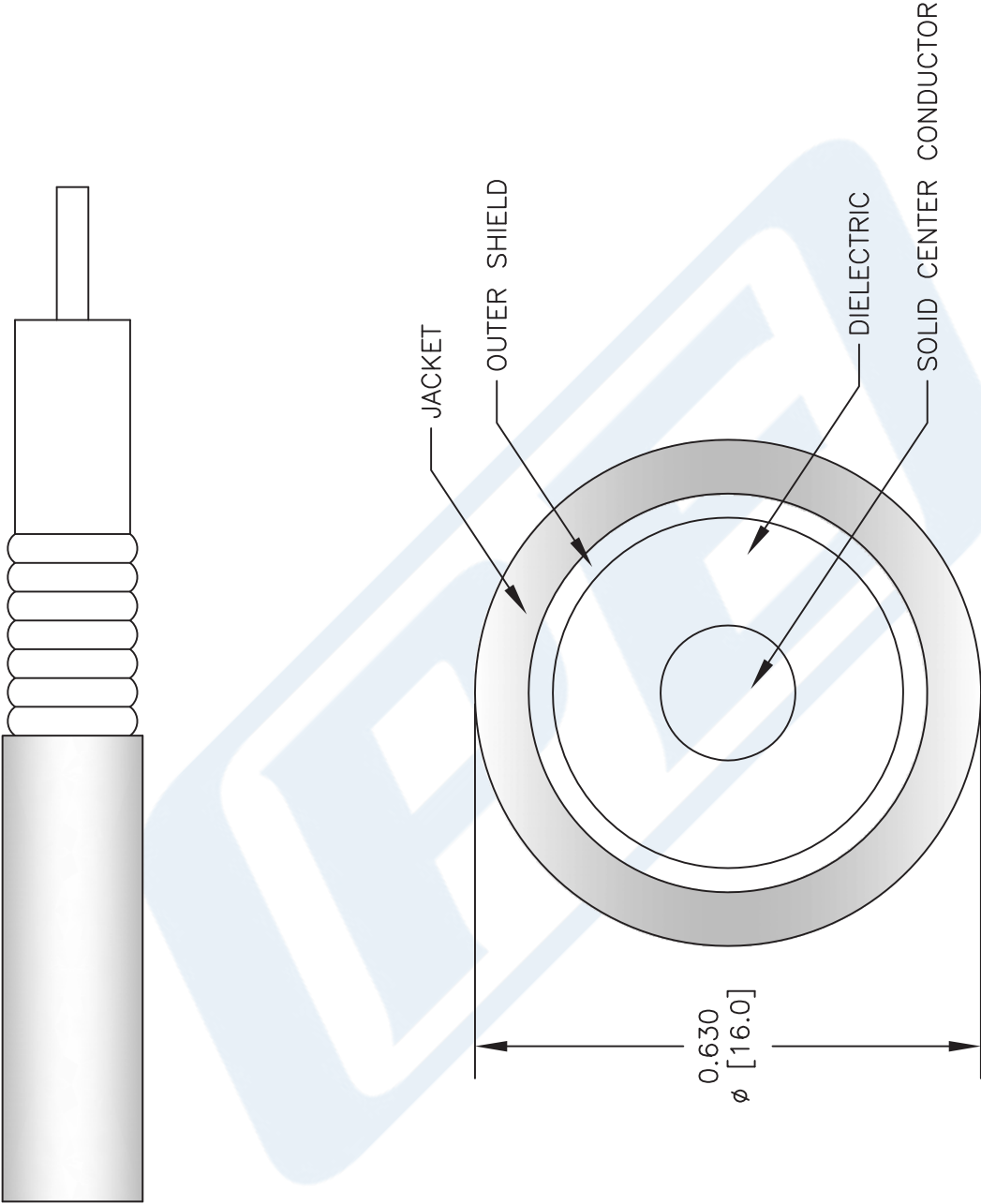
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket PE-1/2FAC](#)

URL: <https://www.pasternack.com/50-ohm-low-loss-corrugated-1-2-flexible-annular-coax-pe-1-2fac-p.aspx>

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.

PE-1/2FAC CAD Drawing

Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket



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].

DWG TITLE  
**PE-1/2FAC**

FSCM NO. 53919

CAD FILE 092112

SCALE N/A

SIZE A

2233



Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)