



## TECHNICAL DATA SHEET

PE44729

#### **N Male Connectors**

These Pasternack Enterprises' high performance connectors are designed to fit on most commercially available 1/2" superflexible, spiral 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 <= -160 dBc. VSWR levels of <= 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 N Male
Connector Specification IEC 60169-16
Connector Interface Type 1/2" Superflexible, PE-1/2SFHC
Cable Attachment Method (Shield/Contact) Clamp/Non-Solder Contact
Connector Design Low PIM
Body Style Straight

#### **Electrical Specifications**

Frequency Range, GHz

Impedance, Ohms

Maximum VSWR

Maximum Insertion Loss, dB

Dielectric Withstanding Voltage, Vrms

Maximum Passive Intermodulation (2 x 20 Watts), dBc

DC to 3

1.1:1

0.1

2,500

-160

## **Mechanical Specifications**

**Temperature** 

Operating Range, deg C -40 to +85

Size

 Length, in [mm]
 2.07 [52.58]

 Width/Dia., in [mm]
 0.85 [21.59]

 Weight, lbs [g]
 0.23 [104.33]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Superflexible, PE-1/2SFHC PE44729

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#### Connector

Type
Mating Cycles
Contact Material and Plating
Contact Plating Specification
Outer Conductor Material and Plating
Outer Conductor Plating Specification
Coupling Nut Material and Plating
Coupling Nut Plating Specification
Hex Size, mm
Torque, in-lbs [Nm]
Body Material and Plating
Body Plating Specification

Spring Copper, Silver
200 [5] μ in. [μm] minimum
Brass, Tri-Metal
78 [2] μ in. [μm] minimum
Brass, Nickel
200 [5] μ in. [μm] minimum
20
15 [1.7]
Brass, Tri-Metal
78 [2] μ in. [μm] minimum
TPX

N Male

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes

#### **Plotted and Other Data**

Dielectric Type

Notes: Values at 25 °C, sea level

N Male Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Superflexible, PE-1/2SFHC 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.

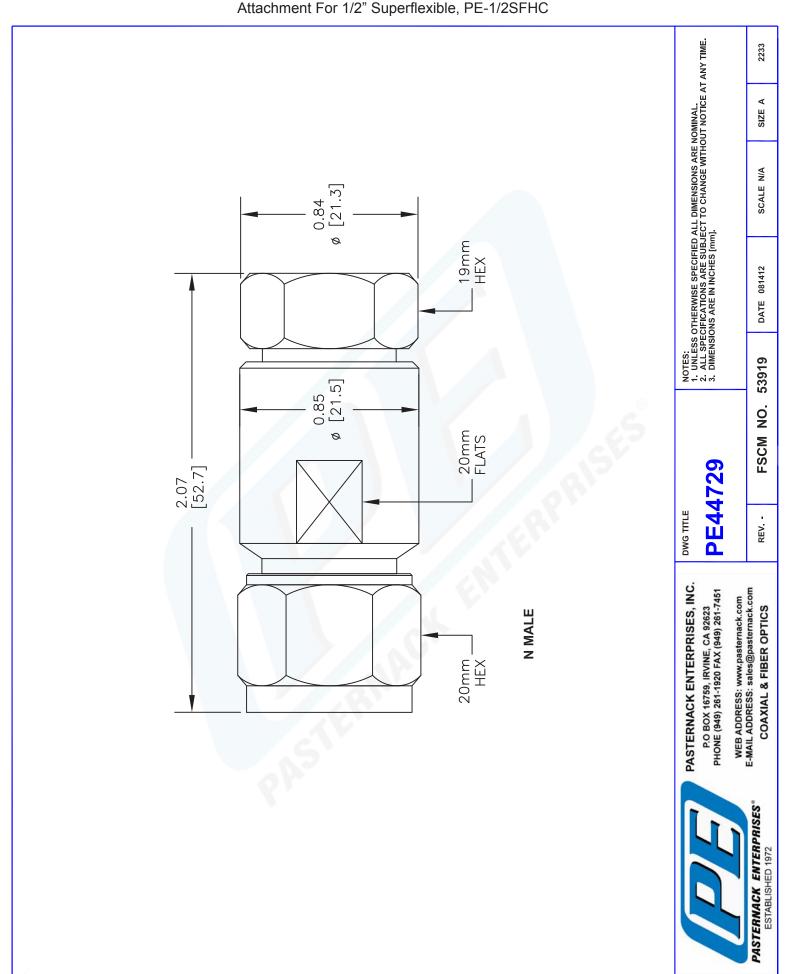
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URL: http://www.pasternack.com/n-male-standard-1-2-inch-super-fexible-pe-1-2sfhc-connector-pe44729-p.aspx

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# PE44729 CAD Drawing

N Male Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Superflexible, PE-1/2SFHC







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Impedance, Ohms

Maximum VSWR

Maximum Insertion Loss, dB

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N Male

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#### **Plotted and Other Data**

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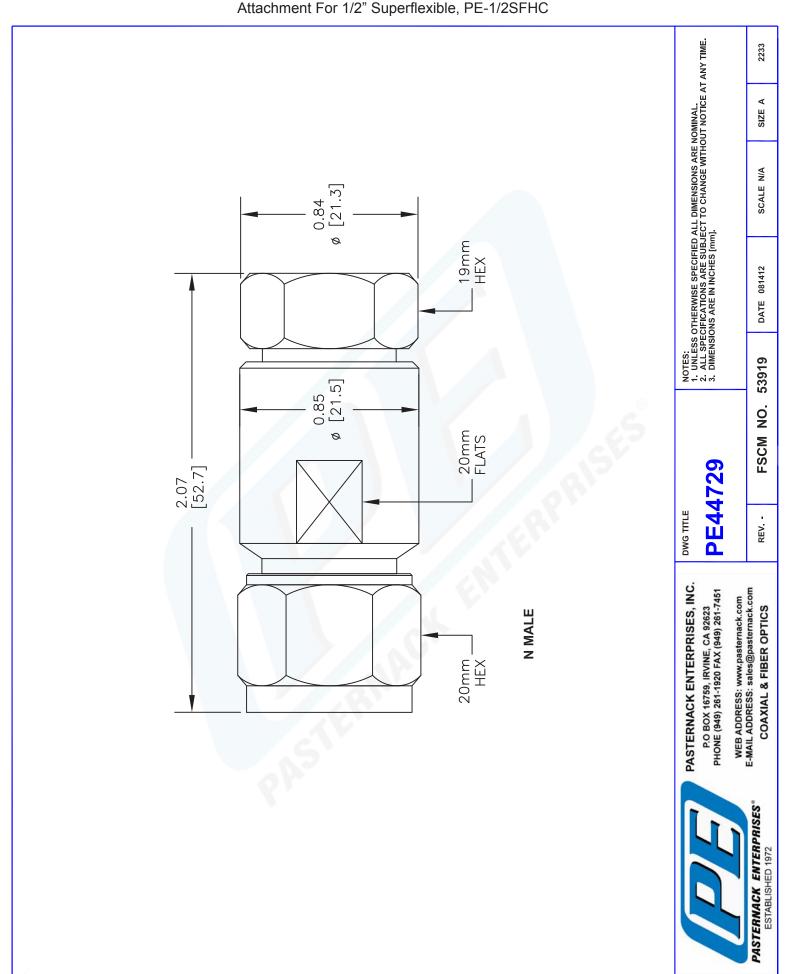
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# PE44729 CAD Drawing

N Male Low PIM Connector Clamp/Non-Solder Contact Attachment For 1/2" Superflexible, PE-1/2SFHC







# Low Loss 1/2 Superflexible Helical Corrugated Coax Cable with Black PE Jacket

## TECHNICAL DATA SHEET

## PE-1/2SFHC

#### 1/2" Superflexible Low Loss Foam Dielectric Copper Corrugated Coaxial Cable features

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 Superflexible cable features excellent return loss performance. The highly foamed dielectric and optimized dimensions of these cables result in excellent low attenuation values. The Superflexible helically corrugated copper outer conductor allows for a small bending radius.

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

#### Configuration

Cable Design

Inner Conductor Material and Plating
Dielectric Type
Shield Materials
Jacket Material, Color

Low Loss
Copper Clad Aluminum
Foam PE
Helically Corrugated Copper Tube
PE, Black

### **Electrical Specifications**

50
82
10.2
13
120
25.3 [83.01]
0.059 [0.19]
0.91 [2.99]
1.08 [3.54]
1000
2500

#### **Electrical Specifications by Frequency**

#### Frequency 1

Frequency, MHz 100
Attenuation, dB/100 ft [dB/100m] 0.92 [3.02]
Power Handling, Watts 2600

#### Frequency 2

Frequency, MHz 450
Attenuation, dB/100 ft [dB/100m] 2.07 [6.79]
Power Handling, Watts 1200

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 Superflexible Helical Corrugated Coax Cable with Black PE Jacket PE-1/2SFHC

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**TECHNIC** 



# Low Loss 1/2 Superflexible Helical Corrugated Coax Cable with Black PE Jacket

AL DATA SHEET	PE-1/2SFHC
Frequency 3 Frequency, MHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	900 3.02 [9.91] 810
Frequency 4 Frequency, MHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	1 3.23 [10.60] 770
Frequency 5 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	1.8 4.45 [14.60] 550
Frequency 6 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	1.9 4.57 [14.99] 540
Frequency 7 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	2.2 4.97 [16.31] 490
Frequency 8 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	2.5 5.37 [17.62] 460
Frequency 9 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	2.7 5.61 [18.41] 440
Frequency 10 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	3 5.95 [19.52] 410

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 Superflexible Helical Corrugated Coax Cable with Black PE Jacket PE-1/2SFHC

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# Low Loss 1/2 Superflexible Helical Corrugated Coax Cable with Black PE Jacket

## TECHNICAL DATA SHEET

## PE-1/2SFHC

**Mechanical Specifications** 

Inner Conductor: Number of Strands

Material Copper Clad Aluminum

Diameter, in [mm] 0.139 [3.53]
Type Foam PE

Dielectric:TypeFoam PEDiameter, in [mm]0.362 [9.19]

Shield: Number of 1

Material 1 Helically Corrugated Copper Tube

Diameter, in [mm] 0.468 [11.89]

Jacket: Material PE

Diameter, in [mm] 0.535 [13.59]
Color Black
Minimum Bend Radius, in [mm] 1.18 [29.97]

Repeated Minimum Bend Radius, in [mm] 1.18 [29.97]
One Time Minimum Bend Radius, in [mm] 0.6 [15.24]
Minimum Number of Bends 20

Tensile Strength, Lbs [Kg] 157 [71.21]
Weight, Lbs/ft [Kg/m] 0.129 [0.19]
Temperature Operating Range, deg C -55 to +85

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes

#### Other Data

URL: http://www.pasternack.com/50-ohm-low-loss-corrugated-1-2-superflexible-helical-coax-pe-1-2sfhc-p.aspx

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