



7/16 DIN Male Right Angle Connector Clamp/Non-Solder
Contact Attachment For 1/2 inch Helical, IP 68 Rated

TECHNICAL DATA SHEET

PE44979

Configuration

Connector	7/16 DIN Male
Connector Interface Type	1/2 inch Helical
Cable Attachment Method (Shield/Contact)	Clamp/Non-Solder Contact
Body Style	Right Angle

Electrical Specifications

Frequency Range, GHz	DC to 3
Impedance, Ohms	50
Maximum VSWR	1.15:1
Maximum Insertion Loss, dB	0.05
Maximum Operating Voltage, Volts	2,500
Maximum Passive Intermodulation (2 x 20 Watts), dBc	-160

Mechanical Specifications

Temperature

Operating Range, deg C	-55 to +155
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Size

Length, in [mm]	1.82 [46.23]
Width/Dia., in [mm]	1.25 [31.75]
Height, in [mm]	2.41 [61.21]

Connector

Type	7/16 DIN Male
Contact Material and Plating	Brass, Silver
Contact Plating Specification	5µ in. minimum
Coupling Nut Material and Plating	Brass, Nickel
Coupling Nut Plating Specification	5µ in. minimum
Hex Size, in.	1 1/4
Torque, ft-lbs [Nm]	18.439 [25]
Body Material and Plating	Brass, Tri-Metal
Body Plating Specification	2µ in. minimum
Dielectric Type	PTFE

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

RoHS Compliant	Yes
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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 Right Angle Connector Clamp/Non-Solder Contact Attachment For 1/2 inch Helical, IP 68 Rated PE44979](#)

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Plotted and Other Data

Notes:

Values at 25 °C, sea level

7/16 DIN Male Right Angle Connector Clamp/Non-Solder Contact Attachment For 1/2 inch Helical, IP 68 Rated 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/7-16-male-standard-1-2-inch-helical-connector-pe44979-p.aspx>

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PE44979 CAD Drawing

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ASSEMBLY PROCEDURES

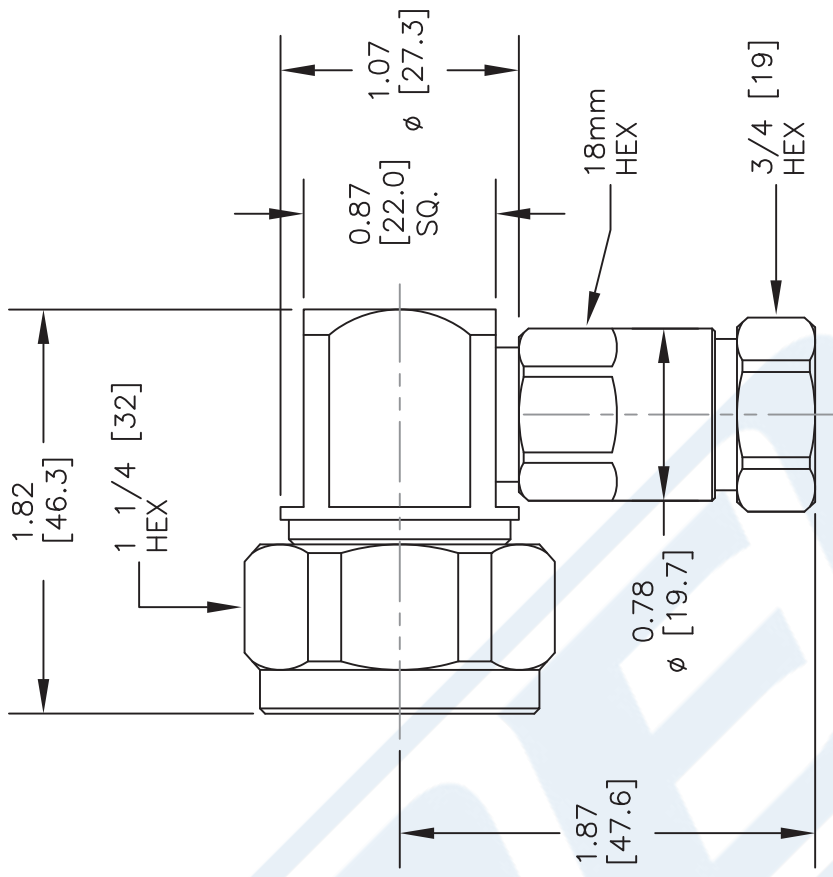
1. STRIP CABLE AS SHOWN, CHAMFER CENTER CONDUCTOR & DEBURR CABLE:

0.630 [16.0]
1 X 45°
DEBURR
0.394 [10.0]
2. PUT THE SCREW GASKET ONTO CABLE, PAY ATTENTION TO THE CORRECT DIRECTION OF THE SCREW GASKET (ANGLE DIRECTION TOWARDS THE FRONT). WIPE THE GASKET WITH GREASE.
3. SCREW CLAMP NUT ONTO CABLE UNTIL EDGES OF NUT & OUTER CONDUCTOR ARE FLAT.

CLAMP NUT
4. SLIDE O-RING OVER THREAD AND SEAT INTO PLACE. GREASE O-RING.

O-RING
5. HOLD CLAMP NUT STEADY & SCREW BODY TIGHTLY ONTO CABLE.

CLAMP NUT
BODY



DWG TITLE

PE44979

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 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

PE PASTERNAK®
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
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Website: www.pasternack.com | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 120513

SCALE N/A

SIZE A

2233



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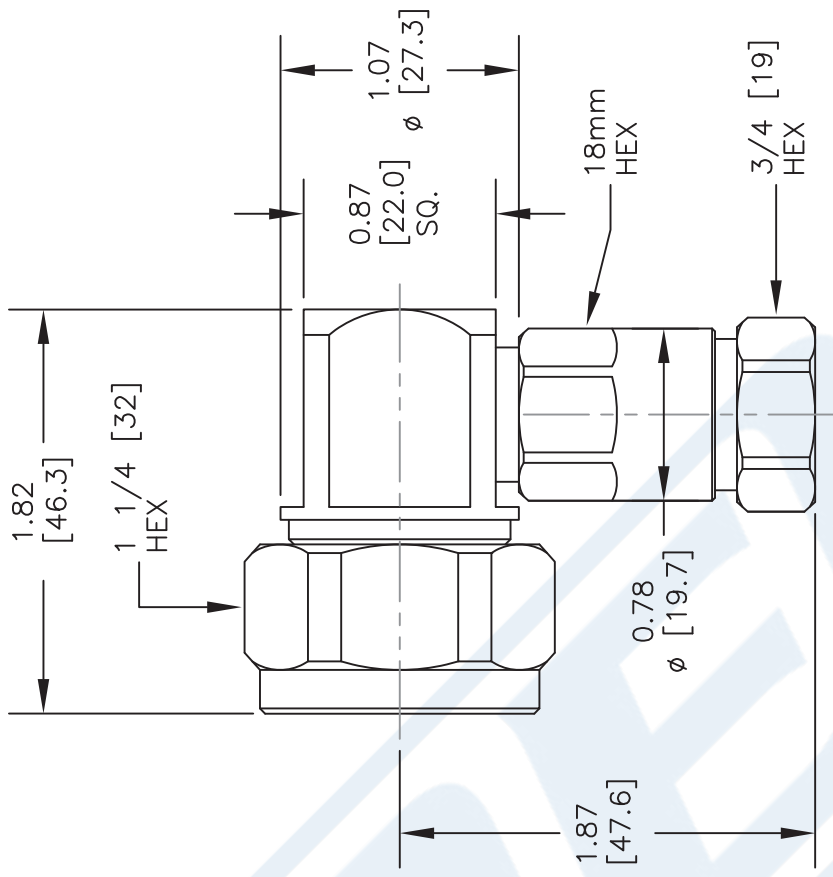
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FSCM NO. 53919

CAD FILE 120513

SCALE N/A

SIZE A

2233



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	Low Loss
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	Foam PE
Shield Materials	Helically Corrugated Copper Tube
Jacket Material, Color	PE, Black

Electrical Specifications

Impedance, Ohms	50
Velocity of Propagation, %	82
Max Operating Frequency, GHz	10.2
Cutoff Frequency, GHz	13
RF Shielding, dB	120
Capacitance, pF/ft [pF/m]	25.3 [83.01]
Inductance, uH/ft [uH/m]	0.059 [0.19]
DC Resistance Inner Conductor, Ohms/1000ft [Ohms/Km]	0.91 [2.99]
DC Resistance Outer Conductor, Ohms/1000ft [Ohms/Km]	1.08 [3.54]
Max Operating Voltage, Volts	1000
Dielectric Withstanding Voltage, Vrms	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

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TECHNICAL DATA SHEET

PE-1/2SFHC

Frequency 3

Frequency, MHz	900
Attenuation, dB/100 ft [dB/100m]	3.02 [9.91]
Power Handling, Watts	810

Frequency 4

Frequency, MHz	1
Attenuation, dB/100 ft [dB/100m]	3.23 [10.60]
Power Handling, Watts	770

Frequency 5

Frequency, GHz	1.8
Attenuation, dB/100 ft [dB/100m]	4.45 [14.60]
Power Handling, Watts	550

Frequency 6

Frequency, GHz	1.9
Attenuation, dB/100 ft [dB/100m]	4.57 [14.99]
Power Handling, Watts	540

Frequency 7

Frequency, GHz	2.2
Attenuation, dB/100 ft [dB/100m]	4.97 [16.31]
Power Handling, Watts	490

Frequency 8

Frequency, GHz	2.5
Attenuation, dB/100 ft [dB/100m]	5.37 [17.62]
Power Handling, Watts	460

Frequency 9

Frequency, GHz	2.7
Attenuation, dB/100 ft [dB/100m]	5.61 [18.41]
Power Handling, Watts	440

Frequency 10

Frequency, GHz	3
Attenuation, dB/100 ft [dB/100m]	5.95 [19.52]
Power Handling, Watts	410

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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	1
	Material	Copper Clad Aluminum
Dielectric:	Diameter, in [mm]	0.139 [3.53]
	Type	Foam PE
Shield:	Diameter, in [mm]	0.362 [9.19]
	Number of	1
Jacket:	Material 1	Helically Corrugated Copper Tube
	Diameter, in [mm]	0.468 [11.89]
Jacket:	Material	PE
	Diameter, in [mm]	0.535 [13.59]
Jacket:	Color	Black
	Repeated Minimum Bend Radius, in [mm]	1.18 [29.97]
Jacket:	One Time Minimum Bend Radius, in [mm]	0.6 [15.24]
	Minimum Number of Bends	20
Jacket:	Tensile Strength, Lbs [Kg]	157 [71.21]
	Weight, Lbs/ft [Kg/m]	0.129 [0.19]
Jacket:	Temperature Operating Range, deg C	-55 to +85

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

RoHS Compliant	Yes
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Other Data

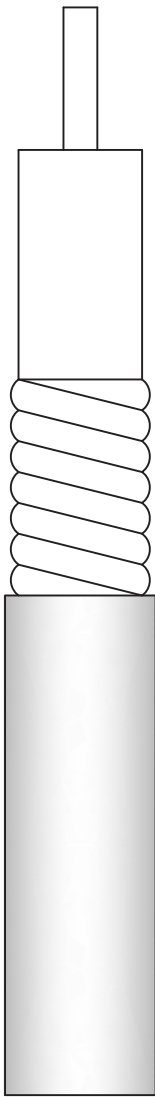
URL: <http://www.pasternack.com/50-ohm-low-loss-corrugated-1-2-superflexible-helical-coax-pe-1-2sfhc-p.aspx>

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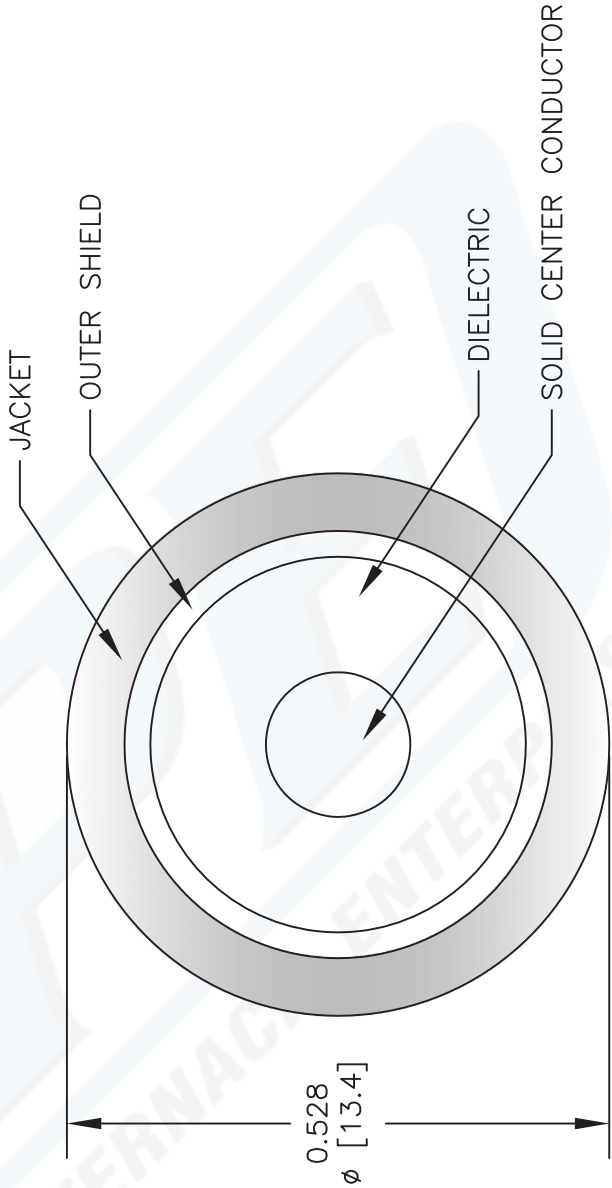
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PE-1/2SFHC CAD Drawing

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PE-1/2SFHC



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DWG TITLE
PE-1/2SFHC

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SIZE A

SCALE N/A

CAD FILE 092112

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