



Low Loss 1/4 Superflexible Helical Corrugated Coax Cable with Black PE Jacket

TECHNICAL DATA SHEET

PE-1/4SFHC

1/4" 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

Impedance, Ohms 50 Velocity of Propagation, % 82 Max Operating Frequency, GHz 20.4 Cutoff Frequency, GHz 25 RF Shielding, dB 120 Capacitance, pF/ft [pF/m] 24.4 [80.05] Inductance, uH/ft [uH/m] 0.059 [0.19] DC Resistance Inner Conductor, Ohms/1000ft [Ohms/Km] 3.2 [10.50] DC Resistance Outer Conductor, Ohms/1000ft [Ohms/Km] 2.53 [8.30] Dielectric Withstanding Voltage, Vdc 900 2000 Jacket Spark, Vrms

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz 30
Attenuation, dB/100 ft [dB/100m] 0.94 [3.08]
Power Handling, Watts 2090

Frequency 2

Frequency, MHz 150
Attenuation, dB/100 ft [dB/100m] 2.14 [7.02]
Power Handling, Watts 924

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low Loss 1/4 Superflexible Helical Corrugated Coax Cable with Black PE Jacket PE-1/4SFHC

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.

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ISO 9001 : 2008 Registered





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	Frequency 3 Frequency, MHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	450 3.75 [12.30] 520	
	Frequency 4 Frequency, MHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	900 5.46 [17.91] 360	
	Frequency 5 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	1.5 7.26 [23.82] 278	
	Frequency 6 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	1.8 8.02 [26.31] 250	
	Frequency 7 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	2 8.52 [27.95] 238	
	Frequency 8 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	2.2 8.99 [29.49] 230	
	Frequency 9 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	2.5 9.67 [31.73] 210	
	Frequency 10 Frequency, GHz Attenuation, dB/100 ft [dB/100m] Power Handling, Watts	3 10.73 [35.20] 190	

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Dielectric:

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Mechanical Specifications

Inner Conductor: Number of Strands

Material Copper Clad Aluminum

Diameter, in [mm] 0.075 [1.91]
Type Foam PE

Diameter, in [mm] 0.173 [4.39] **Shield:** Number of 1

Material 1 Helically Corrugated Copper Tube

Diameter, in [mm] 0.256 [6.50]

Jacket: Material PE

Diameter, in [mm] 0.303 [7.70]
Color Black
Repeated Minimum Bend Radius, in [mm] 1 [25.40]
One Time Minimum Bend Padius in [mm] 0.5 [12.70]

 One Time Minimum Bend Radius, in [mm]
 0.5 [12.70]

 Minimum Number of Bends
 20

 Tensile Strength, Lbs [Kg]
 79 [35.83]

 Weight, Lbs/ft [Kg/m]
 0.048 [0.07]

 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-1-4-superflexible-helical-coax-pe-1-4sfhc-p.aspx

Low Loss 1/4 Superflexible Helical Corrugated Coax Cable with Black PE Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. We maintain 99% availability of the industry's broadest selection of RF, microwave and fiber optic products.

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PE-1/4SFHC CAD Drawing

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