



Flexible PE-P141HF Coax Cable Double
Shielded with Blue FEP Jacket

RF Cables
Technical Data Sheet

PE-P141HF-BULK

Configuration

- Flexible Cable
- 2 Shield(s)

Description

Pasternack's PE-P141HF is a flexible, high frequency coaxial cable that provides similar loss characteristics to semi-rigid cable and low VSWR of 1.3:1 maximum up to 31 GHz. The low loss coax cable features silver-plated conductors and dual shields to maintain a shielding effectiveness of 110 dB. The size of the conductors for this low VSWR coax was specifically chosen to allow termination with standard connectors designed for M17/130-RG402 and other M17/130 cables. The outer shield is coated with a tough, chemical and heat resistant jacket. This PE-P141HF flexible low loss coaxial cable is a great choice for short length, high frequency system hook-up or jumper cable applications. The Pasternack coax cable can also be used as a replacement option for bent semi-rigid cable assemblies when length and routing are considered.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		31	GHz
Impedance		50 $\pm$ 2		Ohms
Velocity of Propagation		70		%
Nominal Capacitance		29.4 [96.46]		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: [Flexible PE-P141HF Coax Cable Double Shielded with Blue FEP Jacket PE-P141HF-BULK](#)



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Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	2	2.4	3	GHz
Attenuation, Max	8	13	18.5	20	23	dB/100ft
	26.25	42.65	60.7	65.62	75.46	dB/100m
Attenuation, Typ	6.4	10.5	15.5	17.2	19.5	dB/100ft
	21	34.45	50.85	56.43	63.98	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	5	10	18	31		GHz
Attenuation, Max	30	45	64	92.3		dB/100ft
	98.43	147.64	209.97	302.82		dB/100m
Attenuation, Typ	26.3	40.1	58.3	83.9		dB/100ft
	86.29	131.56	191.27	275.26		dB/100m

Mechanical Specifications

Diameter	0.163 in [4.14 mm]
Weight	0.029 lbs/ft [0.04 kg/m]
Min. Bend Radius (Installation)	0.82 in [20.83 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.117 in [2.97 mm]
First Shield	Silver Plated Copper Tape	0.125 in [3.18 mm]
Second Shield	Silver Plated Copper Braid	0.138 in [3.51 mm]

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Jacket	FEP, Blue	0.163 in [4.14 mm]
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Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

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

Plotted and Other Data

Notes:

Flexible PE-P141HF Coax Cable Double Shielded with Blue FEP 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.

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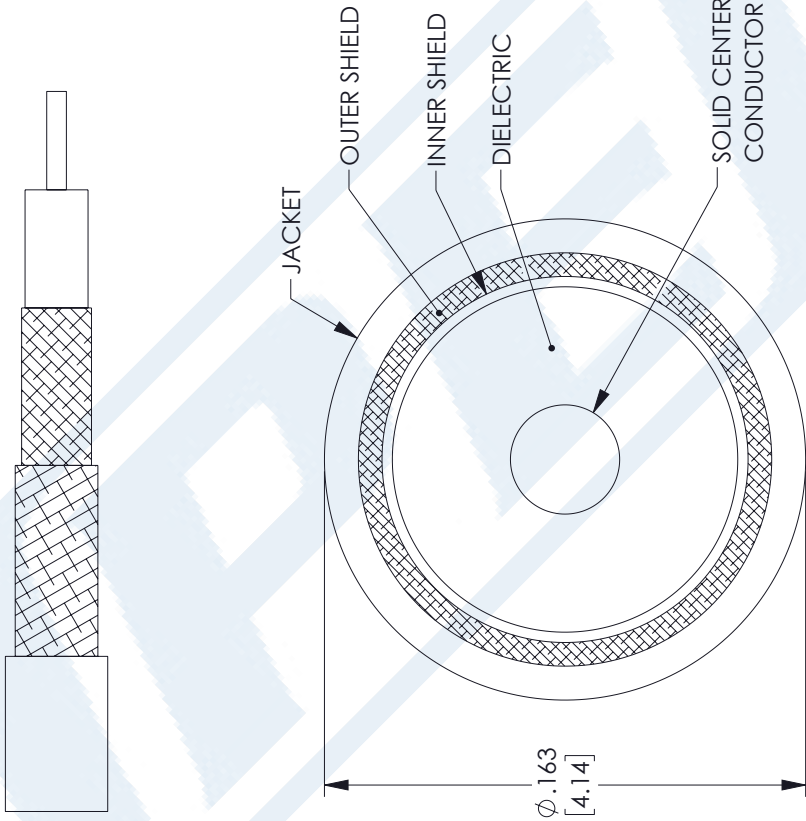
URL: <https://www.pasternack.com/50-ohm-flexible-invalid-alias-fep-jacket-silver-plated-copper-tape-over-silver-plated-copper-braid-outer-conductor-double-shielded-blue-pe-p141hf-bulk-p.aspx>

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-P141HF-BULK CAD Drawing

Flexible PE-P141HF Coax Cable Double Shielded with Blue FEP Jacket

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/07/2022	AGANWANI



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
.X = ± .2 [.08] FRACTIONS
.XX = ± .02 [.51] ± 1/32
.XXX = ± .005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.



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an INFINITE brand

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	DZINN	PE-P141HF-BULK

THIRD-ANGLE PROJECTION



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SHEET	1	OF	1
SCALE	N/A		

REV	A
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