

High Frequency Flexible Coax Cable Double Shielded with Blue FEP Jacket



PE-P047HF-BULK

Configuration

- Flexible Cable
- MIL-DTL-17
- 2 Shield(s)

Features

- Max Frequency of 110 GHz

Applications

- General Purpose Test

Description

PE-P047HF-BULK part number from Pasternack is a Version of 047 Semi-rigid coax cable that is flexible. Pasternack PE-P047 flexible coax cable is 50 Ohm and has a PTFE dielectric. Our PE-P047 coax is constructed with a 0.06 jacket made of FEP. PE-P047 coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 110 GHz. PE-P047 coax cable has an attenuation at 1 GHz of 35.02 dB.

Pasternack Version of 047 Semi-rigid coax cables are part of over 40,000 RF, microwave and millimeter wave components. PE-P047 cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using PE-P047 or other coax can be built and shipped same day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		110	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Shielding Effectiveness	90			dB
Nominal Capacitance		29 [95.14]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	3	6	12	GHz
Attenuation, Typ	24.41	35.02	62.76	89.93	131.62	dB/100ft
	80.09	114.9	205.91	295.05	431.82	dB/100m
Input Power (CW), Max	81.73	41.68	23.11	16.34	11.55	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	18	26.5	32	40	65	GHz
Attenuation, Typ	168.18	211.66	241.9	277.48	377.02	dB/100ft
	551.77	694.42	793.64	910.37	1,236.94	dB/100m
Input Power (CW), Max	9.17	7.28	6.61	5.71	4.14	Watts

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Mechanical Specifications

Diameter	0.06 in [1.52 mm]
Weight	0.004 lbs/ft [0.01 kg/m]
Min. Bend Radius (Repeated)	0.1 in [2.54 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver, 1 Strand	0.011 in [0.28 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.036 in [0.91 mm]
First Shield	Silver Plated Copper Tape	
Second Shield	Silver Plated Copper Braid	0.047 in [1.19 mm]
Jacket	FEP, Blue	0.06 in [1.52 mm]

Environmental Specifications

Temperature	
Operating Range	-65 to +165 deg C
Storage Range	-65 to +200 deg C

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

Plotted and Other Data

Notes:

High Frequency Flexible 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.

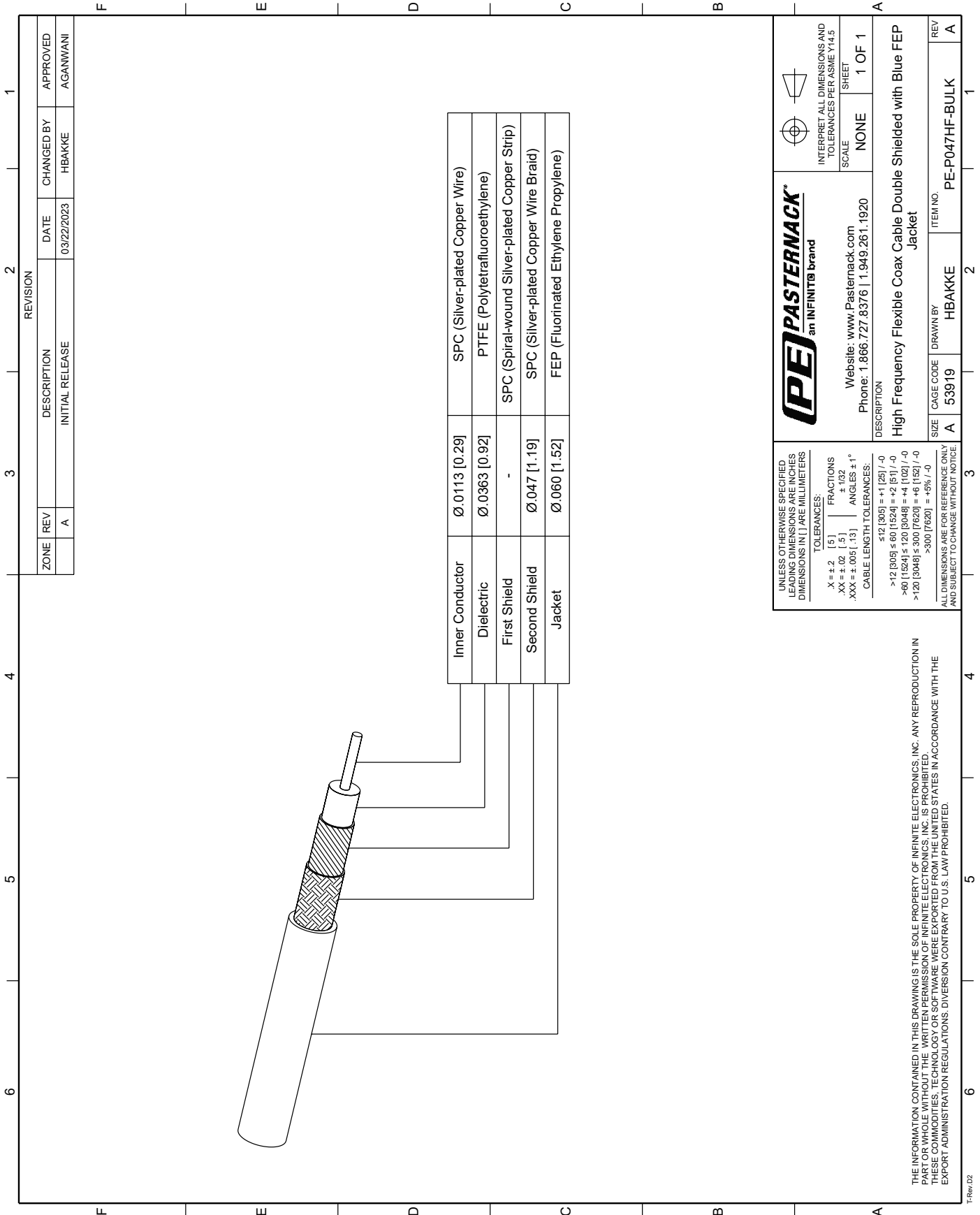
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Frequency Flexible Coax Cable Double Shielded with Blue FEP Jacket PE-P047HF-BULK](#)

URL: <https://www.pasternack.com/high-pe-p047-etfe-jacket-silver-plated-copper-tape-over-mylar-tape-outer-conductor-triple-shielded-pe-p047hf-bulk-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE-P047HF-BULK CAD Drawing

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	03/22/2023	HBAKKE	AGANWANI

PE PASTERNAK
an INFINITB brand

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.

TOLERANCES:
 X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [.5] ± 1/32
 .XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 ≤12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +8% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

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