

## Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket



### PE-1/2FAC

#### Configuration

- Low Loss Corrugated Cable
- 1 Shield(s)

#### Features

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

#### Applications

- Telecommunications
- Broadcasting
- Radar and Defense
- Test & Measurement
- Industrial

#### Description

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

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8.8	GHz
Cutoff Frequency		10		GHz
Impedance		50		Ohms
Velocity of Propagation		85		%
Shielding Effectiveness	120			dB
Dielectric Withstanding Voltage (DC)			1,590	Vdc
Jacket Spark			2,000	Vrms
Inner Conductor DC Resistance			0.49	Ohms/1000ft
Outer Conductor DC Resistance			0.73	Ohms/1000ft
Nominal Capacitance		23.2 [76.12]		pF/ft [pF/m]

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.45	0.8	1	1.8	GHz
Attenuation, Typ	0.66	1.44	1.97	2.22	3.06	dB/100ft
	2.17	4.72	6.46	7.28	10.04	dB/100m
Input Power (CW), Max	3,940	1,800	1,330	1,180	860	Watts

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Description	F6	F7	F8	F9	F10	Units
Frequency	2.2	2.5	2.6	3	8.8	GHz
Attenuation, Typ	3.43	3.68	3.77	4.08	7.7	dB/100ft
	11.25	12.07	12.37	13.39	25.26	dB/100m
Input Power (CW), Max	777	730	710	650	340	Watts

### Mechanical Specifications

Diameter	0.622 in [15.8 mm]
Weight	0.14 lbs/ft [0.21 kg/m]
Min. Bend Radius (Installation)	3.149 in [79.98 mm]
Min. Bend Radius (Repeated)	4.92 in [124.97 mm]
Tensile Strength	224.8 lbs [101.97 kg]

### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum, 1 Strand	0.189 in [4.8 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.476 in [12.09 mm]
First Shield	Annular Corrugated Copper Tube	
Jacket	PE, Black	0.622 in [15.8 mm]

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-45 to +85 deg C
Installation Range	-45 to +85 deg C
Storage Range	-45 to +85 deg C

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

### Plotted and Other Data

Notes:

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### PE-1/2FAC

Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE 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: [Low Loss 1/2 Flexible Annular Corrugated Coax Cable with Black PE Jacket PE-1/2FAC](#)

URL: <https://www.pasternack.com/50-ohm-low-loss-corrugated-1-2-flexible-annular-coax-pe-1-2fac-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-1/2FAC CAD Drawing

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