



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

RF Cables Technical Data Sheet

PE-1/2FAC-BULK

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

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		88		%
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]

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-BULK](#)



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

RF Cables Technical Data Sheet

PE-1/2FAC-BULK

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.45	0.8	1	1.8	GHz
Attenuation, Typ	0.6	1.4	1.9	2.2	3	dB/100ft
	1.97	4.59	6.23	7.22	9.84	dB/100m
Input Power (CW), Max	3,920	1,760	1,280	1,120	810	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	2.2	2.5	2.7	3		GHz
Attenuation, Typ	3.4	3.7	3.8	4		dB/100ft
	11.15	12.14	12.47	13.12		dB/100m
Input Power (CW), Max	720	660	630	590		Watts

Mechanical Specifications

Diameter	0.629 in [15.98 mm]
Weight	0.14 lbs/ft [0.21 kg/m]
Number of Bends, Min	15
Min. Bend Radius (Installation)	2.75 in [69.85 mm]
Min. Bend Radius (Repeated)	4.72 in [119.89 mm]
Tensile Strength	270 lbs [122.47 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	0.629 in [15.98 mm]

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-BULK](#)



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

RF Cables Technical Data Sheet

PE-1/2FAC-BULK

Environmental Specifications

Temperature

Operating Range

-55 to +85 deg C

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

Plotted and Other Data

Notes:

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-BULK](#)

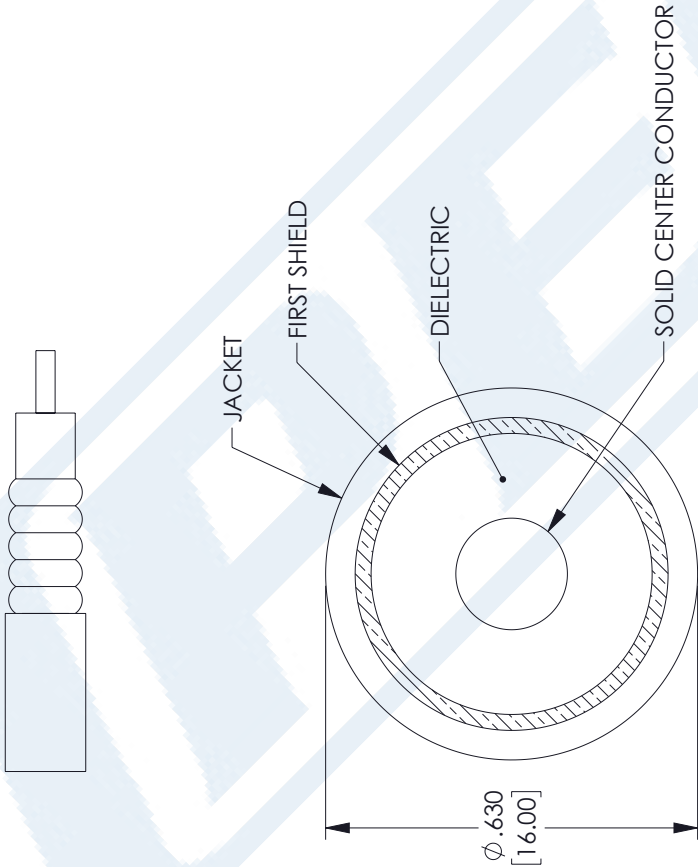
URL: <https://www.pasternack.com/50-ohm-low-loss-corrugated-1-2-flexible-annular-coax-pe-1-2fac-bulk-p.aspx>

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-1/2FAC-BULK CAD Drawing

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

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/02/2022	AGANWANI



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
.X = ± .2	[.08]
.XX = ± .02	[.51]
.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% / -0
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

PE PASTERNAK an INFINITE brand	
Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com	
SIZE	53919
CAGE CODE	DZINN
DRAWN BY	PE-1/2FAC-BULK
ITEM NO.	REV

THIRD-ANGLE PROJECTION	
THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.	
SHEET	1 OF 1
SCALE	N/A