Low Loss .047 Semi-Rigid Coax Cable, Tin Plated Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections

RF Cables Technical Data Sheet

PASTERNACK

PECX002

Configuration

- Low Loss Semi-Rigid Cable
- 1 Shield(s)

Features

- Continuous Copper Outer Conductor
- Low Density Microporous Dielectric
- Phase Stability vs. Temperature

Applications

- · Low Loss Cabling
- Phase Matched Microporous
- Cables
- High Isolation Interconnects
- Surface Mount Cabling

Mechanical Stability vs. Temperature

Supplied in 5 foot maximum straight lengths

High Isolation

Semi-Rigid Cable Assemblies

Description

Pasternack's PECX002 low loss semi-rigid coax with copper outer conductor and microporous dielectric is part of our full line of RF components available for same-day shipping. This low loss semi-rigid coaxial cable operates to a maximum frequency range of 115 GHz. The outer conductor is served by a continuous copper tube which provides extremely high levels of RF shielding and low attenuation. The low density microporous dielectric of this semi rigid coax reduces the dielectric losses and also provides more phase stability over temperature when compared to solid PTFE dielectric. An additional benefit of the microporous dielectric is its mechanical stability over temperature. Unlike solid PTFE, this low density PTFE material can handle soldering heat with minimal or no measurable extrusion on the ends of the cable. This minimizes stress on connectors and allows for more predictable termination on PCB, surface mount applications.

Our microporous dielectric low loss semi-rigid coax cable, PECX002 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave interconnects allows designers to configure and customize their signal connections however they like. Whether the need is to provide a high isolation, phase stable signal path or simply create a custom cable assembly configuration, Pasternack has the right cable for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		115	GHz
Impedance		50 2		Ohms
Velocity of Propagation		76.5		%

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low Loss .047 Semi-Rigid Coax Cable, Tin Plated Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections PECX002

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

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Description	F1	F2	F3	F4	F5	Units		
Frequency	0.5	5	10	18	26.5	GHz		
Attenuation, Typ	21 68.9	68 223.1	96 314.96	130 426.51	160 524.93	dB/100ft dB/100m		
Input Power (CW), Max	110	32	21	16	13	Watts		
chanical Specification Min. Bend Radius (Install	ation)		0.1	125 in [3.18 n	nm]			
Construction Specificat Description	tions	Matoria	l and Plating	A	Diamete	٣		
Inner Conductor	Material and Plating Copper, Silver, 1 Strand ASTM B-298			0.013 in 0.33 mm				
Conductor Type	Solid							
Dielectric	Micro	oporous PTFE		0.037 in [0.94 mm]				
Outer Conductor	Copper, Tin MIL-T-10727			0.047 in 1.19 mm				
Tironmental Specificat Temperature Operating Range	tions		-6	5 to +225 deç	9 C			

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Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

Low Loss .047 Semi-Rigid Coax Cable, Tin Plated Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections 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.

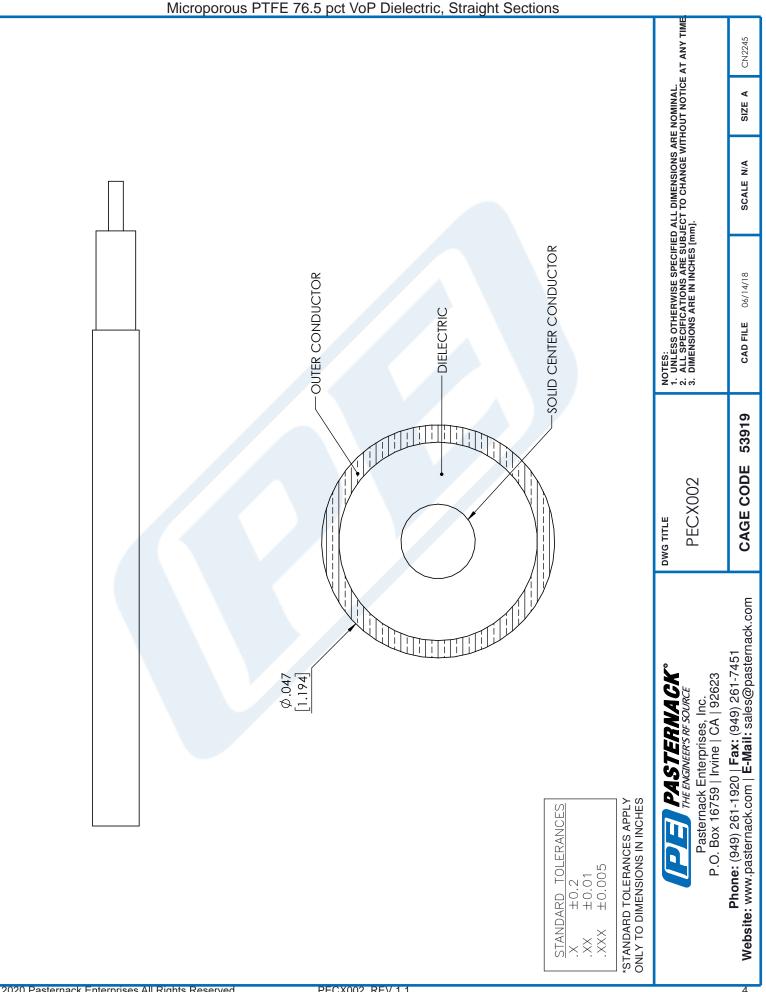
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URL: https://www.pasternack.com/low-loss-semirigid-047-coax-cable-tin-plated-copper-straight-pecx002-p.aspx

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.



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