



7/16 DIN Male to 7/16 DIN Male Cable  
Using 1/2 inch Helical Coax, RoHS

TECHNICAL DATA SHEET

PE37971

7/16 DIN Male to 7/16 DIN Male Cable Using 1/2 inch Helical Coax, RoHS

**Configuration**

Connector 1	7/16 DIN Male
Connector 2	7/16 DIN Male
Cable Type	1/2" Helical

**Electrical Specifications**

Frequency Range, GHz	DC to 2.7
Impedance, Ohms	50
Maximum VSWR	1.12:1
Passive Intermodulation, dBc	-156

**Typical Performance by Frequency**

**Frequency 1**

Frequency, MHz	1000
VSWR	1.05:1
Insertion Loss	0.022 dB/ft + 0.02 dB [ 0.07 dB/m + 0.02 dB ]

**Frequency 2**

Frequency, GHz	2.2
VSWR	1.07:1
Insertion Loss	0.034 dB/ft + 0.02 [ 0.11 dB/m + 0.02 dB ]

**Frequency 3**

Frequency, GHz	2.7
VSWR	1.08:1
Insertion Loss	0.038 dB/ft + 0.02 dB [ 0.12 dB/m + 0.02 dB ]

**Mechanical Specifications**

**Cable Assembly**

Cable Type	1/2" Helical
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**Temperature**

Temperature Operating Range, deg C	-55 to +85
One Time Minimum Bend Radius, in [mm]	2.75 [69.85]
Repeated Minimum Bend Radius, in [mm]	4.9 [124.46]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male to 7/16 DIN Male Cable Using 1/2 inch Helical Coax, RoHS PE37971](#)

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.



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**Cable**

Center Conductor Type	Solid
Cable Inner Conductor	Copper Clad Aluminum
No of Shields	1
Dielectric Type	PE (F)
Jacket Material	PE
Jacket Diameter, in [mm]	0.54 [13.72]

**Connector 1**

Type	7/16 DIN Male
Configuration	Straight
Inner Conductor Material and Plating	Brass, Silver
Outer Conductor Material and Plating	Brass, Silver
Coupling Nut Material and Plating	Brass, Nickel
Body Material and Plating	Brass, Silver
Dielectric Type	PTFE

**Connector 2**

Type	7/16 DIN Male
Configuration	Straight
Inner Conductor Material and Plating	Brass, Silver
Outer Conductor Material and Plating	Brass, Silver
Coupling Nut Material and Plating	Brass, Nickel
Body Material and Plating	Brass, Silver
Dielectric Type	PTFE

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant	Yes
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**Plotted and Other Data**

Notes:	Values at 25 °C, sea level
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7/16 DIN Male to 7/16 DIN Male Cable Using 1/2 inch Helical Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

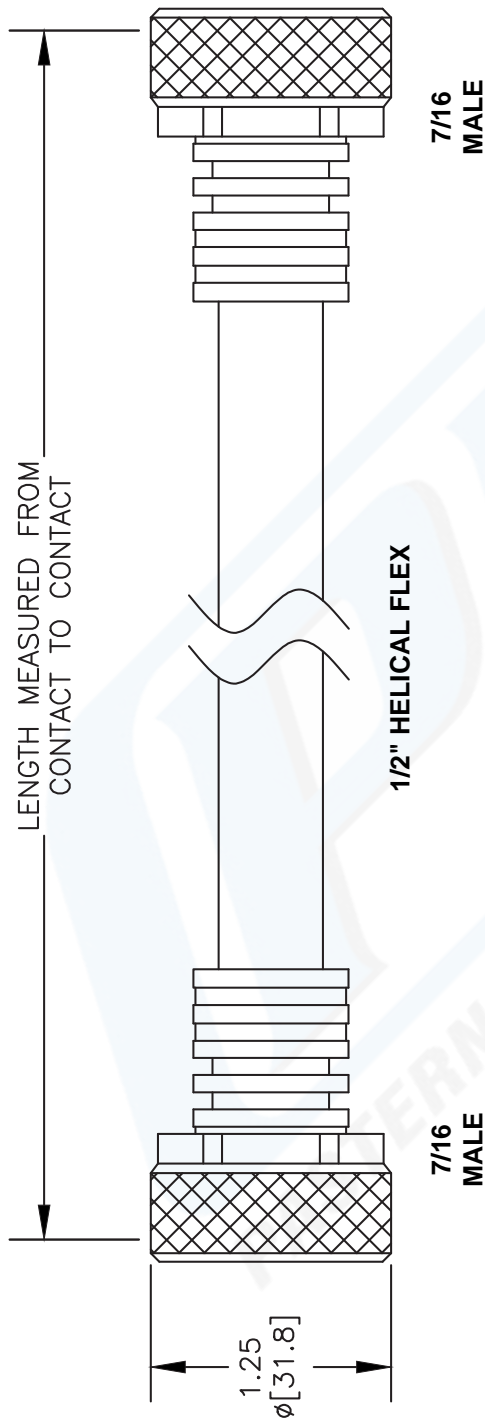
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male to 7/16 DIN Male Cable Using 1/2 inch Helical Coax, RoHS PE37971](http://www.pasternack.com/7-16-male-7-16-male-1-2-inch-helical-cable-pe37971-p.aspx)

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# PE37971 CAD Drawing

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How To Order			
Part Number Configuration		Examples	
PE3	zzz	yy	xx uu
00 - 99999		LF = RoHS Compliant	
< Blank > = Standard		CM = Centimeters	
< Blank > = Inches		< Blank > = Length	
Note: LF applies only to RF cables			
Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
-12	12"	-25CM	25Cm
-24	24"	-50CM	50Cm
-36	36"	-75CM	75Cm
-48	48"	-100CM	100Cm
-60	60"	-125CM	125Cm
-XX	Custom Length	-XXCM	Custom Length

- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES [mm].
  4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

**PASTERNAK®**

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DWG TITLE

**PE37971**

FSCM NO. 53919

CAD FILE 111507

SCALE N/A

SIZE A

2233