



0.141 Semi Rigid Non-Magnetic Cable with Silver Plated Copper Conductor

RF Cables Technical Data Sheet

PE-SR141-NM

Configuration

- Non-Magnetic Semi-Rigid Cable
- 1 Shield(s)

Features

- Max Frequency 34 GHz
- Magnetic Susceptibility 10^{-5}

Applications

- General Purpose Test
- Medical
- Quantum Computing
- Custom Cable Assemblies
- Military and Aerospace

Description

Pasternack's 0.141 semi-rigid non-magnetic cable uses series coaxial is available for same-day shipping from our facility. PE-SR141-NM cables from Pasternack are great choices for solutions requiring high quality and rapid shipping. Our non-magnetic RF cable has a 50 Ohm impedance and is rated for a 34 GHz maximum operating frequency. This high-quality cable is part of a large selection of in-stock, commercial-off-the-shelf, and custom-built coaxial cable assemblies for RF and microwave that all ship the same business day as they are ordered.

These semi-rigid RF cable assemblies are built with RF shielding of 165 dB and have a cable weight of 0.0183 lbs/ft. Our RF coaxial cable has a 0.036-inch SPC (silver-plated copper) conductor and a bending moment of 0.250 lbs-ft. The coaxial RF cable has a maximum attenuation of 82.8 dB/100ft and a maximum power of 70 Watts at a frequency of 26.5 GHz.

The technical performance specifications of this 34 GHz cable are located on the PE-SR141-NM datasheet PDF, along with a CAD drawing and dimensions. Our non-magnetic RF cable has a PTFE dielectric type. This RF non-magnetic cable has a copper outer conductor and a maximum operating temperature of 125 deg C. The Pasternack 0.141 semi-rigid RF cable assembly data sheet with specs and drawing dimensions can be found on this product page just above.

0.141 semi-rigid non-magnetic cable is one of a large selection of in-stock RF products available. Pasternack not only has this off-the-shelf but also custom versions of our cable assemblies are available for same-day shipping, we have thousands of other products that have same day shipping. Our expert technical support and knowledgeable sales teams are ready to help and answer your RF coaxial cable assembly questions.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		34	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Shielding Effectiveness	165			dB
Operating Voltage (AC)			5,000	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.141 Semi Rigid Non-magnetic Cable with Silver Plated Copper Conductor PE-SR141-NM](#)



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Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	18	GHz
Attenuation, Typ	7.6	11.1	28.1	43.4	63.6	dB/100ft
	24.93	36.42	92.19	142.39	208.66	dB/100m
Input Power (CW), Max	600	450	180	120	73	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	26.5					GHz
Attenuation, Typ	82.8					dB/100ft
	271.65					dB/100m
Input Power (CW), Max	70					Watts

Mechanical Specifications

Min. Bend Radius (Repeated) 0.25 in [6.35 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Silver Plated Copper, 1 Strand	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.118 in [3 mm]
	PTFE	
Outer Conductor	Copper 100% coverage	0 in [0 mm]
Jacket	Copper	[]

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Storage Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

0.141 Semi Rigid Non-Magnetic Cable with Silver Plated Copper Conductor 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: [0.141 Semi Rigid Non-magnetic Cable with Silver Plated Copper Conductor PE-SR141-NM](#)

URL: <https://www.pasternack.com/non-magnetic-semirigid-pe-sr141-nm-coax-cable-copper-pe-sr141-nm-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-SR141-NM CAD Drawing

0.141 Semi Rigid Non-Magnetic Cable with Silver Plated Copper Conductor

F

E

D

C

B

A

F

E

D

C

B

A

1

2

3

4

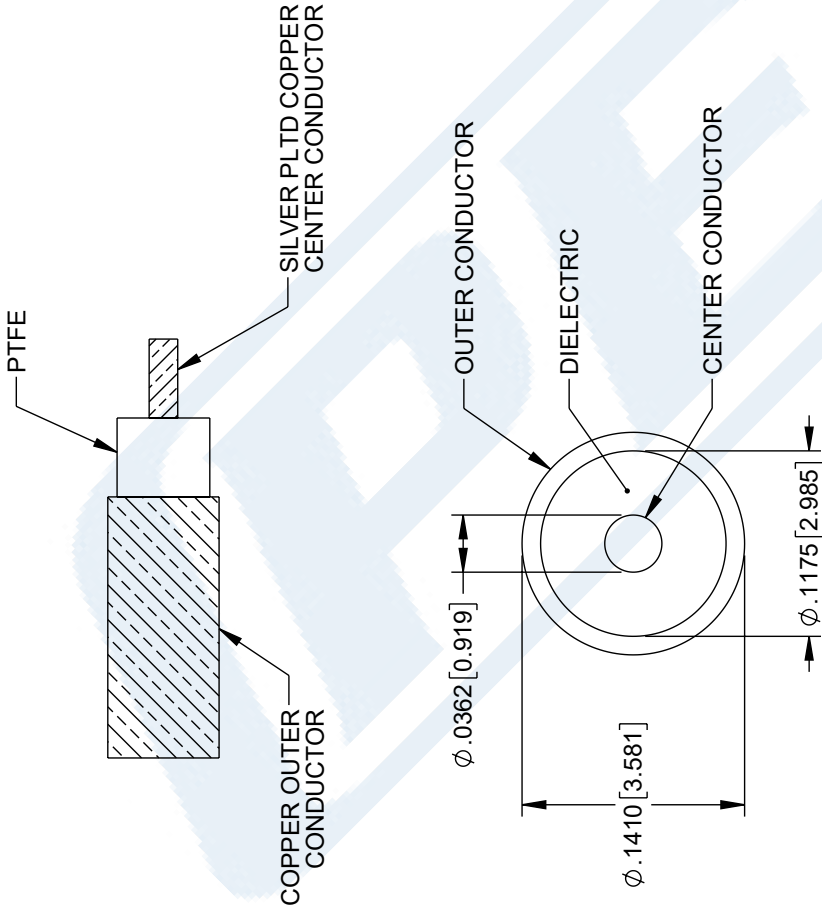
5

6

6

REVISION

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	08/01/2023	DZINN	AGANWANI



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE IN INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
X = ± 2 [5]
XX = ± 0.02 [0.5]
XXX = ± 0.005 [0.13]

FRACTIONS
± 1/32
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] = ± 8 [203] / -0
> 300 [7620] = ± 9 [229] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE
UN-DIMENSIONED NON-CRITICAL FEATURES
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

PE PASTERNAK®
an INFINITI® brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
.141 DIA COAX CABLE, SEMI-RIGID, COPPER OUTER
CONDUCTOR, NON-MAGNETIC

SIZE A
CAGE CODE 53919
DRAWN BY DZINN
ITEM NO. PE-SR141-NM

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE NONE
SHEET 1 OF 1

REV A

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