

0.141 Formable Non-Magnetic Cable with Silver Plated Copper Conductor



PE-141FL-NM-BULK

Configuration

- Non-Magnetic Formable Cable

Features

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

Applications

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

Description

Pasternack's 0.141 semi-rigid non-magnetic cable uses series coaxial is available for same-day shipping from our facility. PE-141FL-NM-BULK 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 formable RF cable assemblies are built with RF shielding of 90 dB and have a cable weight of 1.32 lbs/ft. Our RF coaxial cable has a 0.036-inch SPC (silver-plated copper) conductor and a bending moment of 0.375 lbs-ft. The coaxial RF cable has a maximum attenuation of 109.02 dB/100ft at a frequency of 26.5 GHz.

The technical performance specifications of this 34 GHz cable are located on the PE-141FL-NM-BULK 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-tin composite 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		70		%
Shielding Effectiveness	90			dB
Operating Voltage (AC)			5,000	Vrms

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	18	GHz

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Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Attenuation, Typ	11.2	16.2	39.2	59.4	85.2	dB/100ft
	36.75	53.15	128.61	194.88	279.53	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	26.5	40				GHz
Attenuation, Typ	109.2	142.9				dB/100ft
	358.27	468.83				dB/100m

Mechanical Specifications

Weight	0.026 lbs/ft [0.04 kg/m]
Min. Bend Radius (Repeated)	0.375 in [9.53 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	0.117 in [2.97 mm]
Outer Conductor	Copper-Tin Composite	0.141 in [3.58 mm]
	100% coverage	

Environmental Specifications

Temperature	
Operating Range	-55 to +200 deg C
Storage Range	-55 to +200 deg C

Compliance Certifications

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

Plotted and Other Data

Notes:

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0.141 Formable 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 Formable Non-Magnetic Cable with Silver Plated Copper Conductor PE-141FL-NM-BULK](https://www.pasternack.com/0.141-formable-non-magnetic-cable-with-silver-plated-copper-conductor-pe-141fl-nm-bulk)

URL: <https://www.pasternack.com/0.141-formable-non-magnetic-cable-with-silver-plated-copper-conductor-pe-141fl-nm-bulk-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-141FL-NM-BULK CAD Drawing

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