

141 Semi-rigid Coax Cable with Tinned Aluminum



PE-SR402AL-BULK

Configuration

- Semi-Rigid Cable

Features

- Silver Plated Copper Clad Steel Center Conductor
- PTFE Dielectric Material
- Tinned Aluminum Outer Conductor
- Operating to 36 GHz

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

.141 diameter semi-rigid coaxial cable is the cable of choice for many RF and Microwave engineers. 0.141 cables sometimes referred to as RG402 based on the mil specification for semi-rigid cable of this diameter has a maximum operating frequency of 36 GHz. This form factor is widely used in the RF industry and many connector series and configurations are available for this cable. Because of the solid tinned aluminum wall design the cable can be formed using proper tooling.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		36	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Power@ 1GHz			450	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Max	13	46	71			dB/100ft
	42.65	150.92	232.94			dB/100m
Input Power (CW), Max	450	120	70			Watts

Mechanical Specifications

Weight	0.0172 lbs/ft [0.03 kg/m]
Min. Bend Radius (Repeated)	0.15 in [3.81 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.118 in [3 mm]

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Construction Specifications

Description	Material and Plating	Diameter
Outer Conductor	Tinned Aluminum	0.141 in [3.58 mm]

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

141 Semi-rigid Coax Cable with Tinned Aluminum 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: [141 Semi-rigid Coax Cable with Tinned Aluminum PE-SR402AL-BULK](#)

URL: <https://www.pasternack.com/semirigid-0.141-50-ohm-coax-cable-tinned-aluminum-pe-sr402al-bulk-p.aspx>

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PE-SR402AL-BULK CAD Drawing
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