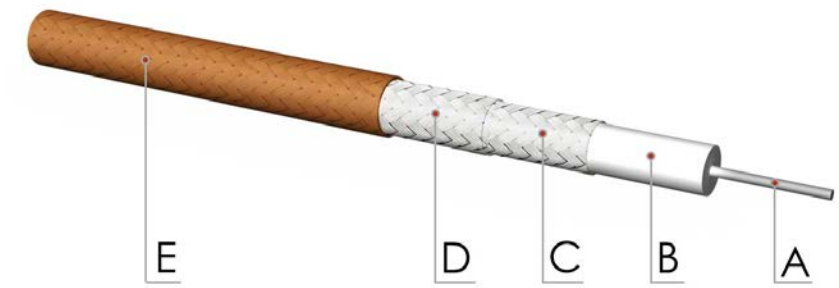
RG142B/U

Flexible PTFE High Power Coaxial Cable

DATASHEET



FEATURES:

- High power handling
- High temperature
- Moderate attenuation

Construction

	ITEM	MATERIAL	DIAMETER	REMARK
A	Center Conductor	SCCS (Silver Plated Copper Covered Steel)	0.94 mm (0.037 in)	Solid Core
B	Dielectric	PTFE (Poly Tetra Flour Ethylene)	2.95 mm (0.116 in)	Teflon®
C	Outer Conductor	SPC (Silver Plated Copper)	3.50 mm (0.138 in)	95% Coverage 112x0.12 (Braid)
D	Outer Conductor	SPC (Silver Plated Copper)	4.00 mm (0.157 in)	95% Coverage 112x0.12 (Braid)
E	Jacket	FEP (Fluorinated Ethylene Propylene)	4.95 mm (0.195 in)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	50Ω (±2)
Operating Frequency	dc - 6 GHz (max. 10 GHz)
Cutoff Frequency	33 GHz
Velocity of Propagation	70%
Signal Delay	4.7 ns/m
Capacitance	95 pF/m
Operating Temperature	-65 / +165 °C (-85 / 329 °F)
Shield Effectiveness	> 80 dB
Working Voltage	2000 V_{RMS} (max.)
Weight	63.5 Kg/Km
Min. Bending Radius	30 mm (single), 60 mm (multiple)

RoHS COMPLIANT

Attenuation & Power Handling

Frequency (MHz)	Typical Attenuation (dB/100m)	(dB/100ft)	Average max Power (W)
10	3.8	1.16	3500
30	6.7	2.04	1950
50	8.6	2.62	1700
100	12.4	3.78	1300
150	15.3	4.66	1010
450	27.8	8.48	650
1000	43.6	13.29	410
2400	72.0	21.95	250
5500	118.0	35.98	170
8000	143.0	43.60	105
10000	172.0	52.44	80