



8561 Rayson Rd. Suite A, Houston, TX 77080

Product Data Sheet

Model Number / Part Number: ABR142/ 24142
 Description: 50 Ohm RG-142B/U Teflon
 Suitable application: RF Communication / Government

Physical Characteristics	
Center Awg	19ga (0.039")
Stranding	1 Solid
Conductor Material	Silver
Dielectric Material	PTFE
Nominal Diameter	0.116"
Braid Awg	36
Braid Material	2X Silver
Braid Coverage	2 X 95%
Final Jacket Material	FEP
Overall Jacket	0.195"
Final Jacket Color	Tan

Nominal Attenuation	
Impedance:	50 Ohms
Capacitance	29.4 pF/foot
Velocity of Prop	69%

Attenuation / Average Power		
Frequency (MHz)	Nom db/100	Average Power (KW)
30	2.1	3.08
50	2.7	2.37
150	4.7	1.34
220	5.7	1.10
450	8.3	0.75
900	12.1	0.51
1500	16.1	0.38
1800	17.8	0.35
2000	18.9	0.33
2500	21.4	0.29
5800	35.0	0.17
8000	42.5	0.14

Applicable Standards	
UL Type	Available
ROHS Compliant	Yes

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Calculate Attenuation = $K1 \times \sqrt{F} + K2 \times F$ (dB/100 feet) K1 Resistive Loss Constant. K2 is dielectric Loss constant F is Frequency is MHz
 Attenuation set at VSWR=1.0 ; Ambient = +25°C (77°F) Power: VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air;
 atmospheric pressure; no solar loading