



8561 Rayson Rd. Suite A, Houston, TX 77080

Product Data Sheet

Model Number / Part Number: ABR223 / 23223SC
 Description: 50 Ohm RG-223B/U Teflon
 Suitable application: RF Communication / Government

Physical Characteristics	
Center Awg	19ga (0.039")
Stranding	1 Solid
Conductor Material	Silver
Dielectric Material	Polyethylene
Nominal Diameter	0.116"
Braid Awg	36
Braid Material	2X Silver
Braid Coverage	2 X 95%
Final Jacket Material	Non-Contaminating PVC
Overall Jacket	0.195"
Final Jacket Color	Black

Nominal Attenuation	
Impedance:	50 Ohms
Capacitance	30.8 pF/foot
Velocity of Prop	66%

Attenuation / Average Power		
Frequency (MHz)	Nom db/100	Average Power (KW)
30	2.5	0.55
50	3.2	0.42
150	5.5	0.24
220	6.9	0.20
450	10.0	0.13
900	14.5	0.09
1500	19.1	0.07
1800	21.1	0.06
2000	22.4	0.06
2500	25.4	0.05
5800	41.1	0.03
8000	53.9	0.02

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