



8561 Rayson Rd. Suite A, Houston, TX 77080

### Product Data Sheet

Model Number / Part Number: ABR214/ 22214SC  
 Description: 50 Ohm RG-214/U Type 2 Jacket  
 Suitable application: RF Communication / Government

Physical Characteristics	
Center Awg	13 ga (0.092")
Stranding	7 Strand
Conductor Material	Silver
Dielectric Material	Polyethylene
Nominal Diameter	0.285"
Braid Awg	36
Braid Material	2X Silver
Braid Coverage	2 X 95%
Final Jacket Material	Type IIA - PVC
Overall Jacket	.390
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	1.0	3.08
50	1.4	2.54
150	2.4	1.45
220	3.0	1.17
450	4.5	0.79
900	6.6	0.55
1500	9.0	0.41
1800	10.0	0.38
2000	10.7	0.36
2500	12.3	0.32
5800	21.3	0.20
8000	26.5	0.15

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