



Product Data Sheet

Model Number / Part Number: ABR100/ 24100
 Description: 50 Ohm Low Loss 100 Size Type 1 JKT – Black
 Suitable application: Low Loss RF Communication

Physical Characteristics	
Center Awg	26ga (0.018")
Stranding	1 Solid
Conductor Material	Bare Copper
Dielectric Material	Gas Injected Foam Polyethylene
Nominal Diameter	0.060"
Tape material	Bonded Aluminum/polyester/aluminum tape
Braid Awg	36
Braid Material	Tinned Copper
Braid Coverage	Foil + 95%
Final Jacket Material	Non-Contaminating PVC
Overall Braid	0.083"
Overall Jacket	0.110"
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	3.9	0.230
50	5.1	0.180
150	8.9	0.100
220	10.9	0.083
450	15.8	0.057
900	22.8	0.039
1500	30.1	0.029
1800	33.2	0.027
2000	35.2	0.025
2500	39.8	0.022
5800	64.1	0.013
8000	77.3	0.010

Applicable Standards	
UL Type	N/A
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