



Product Data Sheet

Model Number / Part Number: ABR240 / 24240  
 Description: 50 Ohm Low Loss 240 Size Type 2 JKT – Black  
 Suitable application: Low Loss RF Communication

Physical Characteristics	
Center Awg	17ga (0.056")
Stranding	1 Solid
Conductor Material	Bare Copper (BC)
Dielectric Material	Gas Injected Foam Polyethylene
Nominal Diameter	.150"
Tape material	Bonded Aluminum/polyester/aluminum tape
Braid Awg	36
Braid Material	Tinned Copper
Braid Coverage	Foil + 95%
Final Jacket Material	Non-Contaminating PVC
Nominal Thickness	.062"
Nominal Diameter	.242"
Final Jacket Color	Black

Nominal Attenuation	
Impedance:	50 Ohms
Capacitance	24.2 pF/foot
Velocity of Prop	83%

Attenuation / Average Power		
Frequency (MHz)	Nom db/100	Average Power (KW)
30	1.3	1.49
50	1.7	1.15
150	3.0	0.66
220	3.7	0.54
450	5.3	0.38
900	7.6	0.26
1500	9.9	0.20
1800	10.9	0.18
2000	11.5	0.17
2500	12.9	0.15
5800	20.4	0.10
8000	24.3	0.08

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