



8561 Rayson Rd. Suite A, Houston, TX 77080

Product Data Sheet

Model Number / Part Number: ABR400-UF / 25400F

Description: 50 Ohm Low Loss 400 Size Type 2 JKT – Black

Suitable application: Low Loss RF Communication

Physical Characteristics	
Center Awg	10ga
Stranding	19 strand
Conductor Material	Copper
Dielectric Material	Gas Injected Foam Polyethylene
Nominal Diameter	.295"
Tape material	Bonded Aluminum/polyester/aluminum tape
Braid Awg	36
Braid Material	Tinned Copper
Braid Coverage	Foil + 95%
Final Jacket Material	Non-Contaminating PE
Nominal Thickness	.028"
Nominal Diameter	.405"
Final Jacket Color	Black

Nominal Attenuation	
Impedance:	50 Ohms
Capacitance	24.6 pF/foot
Velocity of Prop	84%

Attenuation / Average Power		
Frequency (MHz)	Nom db/100	Average Power (KW)
30	0.8	2.77
50	1.1	2.14
150	1.8	1.22
220	2.2	1.00
450	3.3	0.69
900	4.7	0.48
1500	6.2	0.36
1800	6.8	0.33
2000	7.2	0.31
2500	8.1	0.28
5800	13.0	0.17

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