



Product Data Sheet

Model Number / Part Number: ABR195PLEN/ 24195-PLEN  
 Description: 50 Ohm Low Loss 195 Size Plen Jacket  
 Suitable application: Low Loss RF Communication  
 c(UL)us TYPE CMP 125C E179333

Physical Characteristics	
Center Awg	20ga (.037")
Stranding	1 Cond. Solid
Conductor Material	Bare Copper
Dielectric Material	Gas Injected Foam Polyethylene
Nominal Diameter	.113"
Tape material	Bonded Aluminum/polyester/aluminum tape
Braid Awg	36
Braid Material	Tinned Copper
Braid Coverage	95%
Final Jacket Material	Red PVDF Fluoropolymer
Nominal Thickness	.018"
Nominal Diameter	.175"
Final Jacket Color	RED

Nominal Attenuation	
Impedance:	50 Ohms
Capacitance	25.4 pF/foot
Velocity of Prop	75%

Attenuation / Average Power		
Frequency (MHz)	Nom db/100	Average Power(KW)
30	2.0	0.89
50	2.5	0.68
150	4.4	0.39
220	5.4	0.32
450	7.8	0.22
900	11.1	0.16
1500	14.5	0.12
1800	16.0	0.11
2000	16.9	0.10
2500	19.0	0.09
5800	25.9	0.06
8000	35.7	0.04

Applicable Standards	
UL Type	c(UL)us TYPE CMP 125C E179333
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