



V00810SP		RG8A/U Coaxial Cable (MIL-C-17D) (Outdoor)	
Conductor		Insulation	
Composition (No./M)	7/0.715 ± 0.008 mm	Material	Poly Ethylene
Material	Bare Copper	Thickness	2.545 ± 0.05
Outside Diameter (mm)	2.15	Nominal Diameter (mm)	7.24 ± 0.1
AWG (Stranding)	13		
Outer Shield		Inner Shield	
Material	Bare Copper	Material	-
Construction	24/8/0.18 ± 0.008 mm	Construction	-
picks/inches	8	picks/inches	-
Coverage	>98%	Coverage	-
Jacket/Sheath		Nominal Capacity	
Material	Black Non-Contaminating PVC	pf/Ft	29.8 ± 3
Diameter	10.30 ± 0.1	pf/m	98 ± 3
Color	Black	-	-
Nominal Velocity of Propagation		Nom. Impedance	
66.00%		52 ± 3	

Nominal Attenuation		
Frequency (MHz)	dB/100'	dB/100m
1	0.16	0.51
10	0.55	1.82
50	1.29	4.22
100	1.87	6.14
200	2.74	8.98
400	4.05	13.29
700	5.61	18.41

900	6.54	21.47
1000	6.98	22.90

Electrical Properties					
Conductor Resistance	$\Omega/100M$	5.5			
Dielectric Resistance	$M\Omega/M$	Min 5000			
Spark Test	V AC	1750			
Jacket Spark Test	V AC	1750			
Dielectric Withstand Test	V AC	1500 (at least 2 sec)			
Impedance	Ω	52 \pm 3			
Capacitance	pF/m	94 \pm 3			
VOP (1 MHz - 1000 MHz)	%	67.55 at 1GHz			
VSWR (MHz)	%	1.094 at 1 GHz			
Physical Property					
Insulation	Tensile Strength	Unaged	Psi	2377	
		Aged	%	80	
	Elongation	Unaged	%	493	
		Aged	%	85	
	Concentricity	-	%	90	
	Strip Force	-	-	PASS	
	Jacket	Tensile Strength	Unaged	Psi	2455
			Aged	%	81
Elongation		Unaged	%	766	
		Aged	%	83	
Concentricity		-	%	92	
Strip Force		-	-	PASS	
Jacket Thickness		-	mm	1.05 \pm 0.05	

RoHS Test		
Cadmium (Cd)	ppm	ND
Lead (Pb)	ppm	ND
Mercury (Hg)	ppm	ND
Chromium VI (Cr + 6)	ppm	ND
PBBs (Polybrominated biphenyls)	ppm	ND
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