



Part Number		Item Number	
V00810S		RG8A/U Coaxial Cable (MIL-C-17D)	
Conductor		Insulation	
Composition (No./M)	7/0.715 ± 0.008 mm	Material	Poly Ethylene
Material	Bare Copper	Thickness	2.5 ± 0.05
Outside Diameter (mm)	2.15	Nominal Diameter (mm)	7.23 ± 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	>97%	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	0.15	0.48
10	0.53	1.73
50	1.23	4.02
100	1.78	5.85
200	2.61	8.55
400	3.86	12.65

700	5.34	17.52
900	6.22	20.41
1000	6.63	21.75

Electrical Properties					
Conductor Resistance	$\Omega/100M$	4			
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)	%	66			
VSWR (MHz)	%	1.024 at 1 GHz			
Physical Property					
<i>Insulation</i>	Tensile Strength	Unaged	Psi	2209	
		Aged	%	88	
	Elongation	Unaged	%	433	
		Aged	%	85	
	Concentricity	-	%	93	
	Strip Force	-	-	PASS	
	<i>Jacket</i>	Tensile Strength	Unaged	Psi	2400
			Aged	%	82
Elongation		Unaged	%	255	
		Aged	%	88	
Concentricity		-	%	90	
Strip Force		-	-	PASS	

Jacket Thickness			-	-	1.14 ± 0.05mm
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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