

0.81 COAXIAL CABLE SPECIFICATION

Style	UL1745 90°C 30V		
Size	36AWG		
Standard :			
Conductor	Size	AWG	36
	Material	----	Silver-Coated Copper
	Conductors No.	----	7
	Construction Size	mm	0.05
	Stranded Diameter	mm	0.15
Insulation	Material	----	FEP
	Color	----	Clear
	Average Thickness	mm	0.13
	Diameter	mm	0.4 ± 0.01
Braid Shield	Material	----	Tinned-Coated Copper
	Construction	mm	16/6/0.05
	Coverage	%	≥ 95
	Diameter	mm	0.65 ± 0.02
Jacket	Material	----	FEP
	Color	----	Gray
	Average Thickness	mm	0.08
	Overall Diameter	mm	0.81 ± 0.03
Marking	-----		
Drawing	 <p>The diagram shows a cross-section of the coaxial cable with four layers labeled from the center outwards: Conductor (7 yellow circles), Insulation (white ring), Braid Shield (cross-hatched ring), and Jacket (orange ring).</p>		

Electrical & Physical Properties						
Item		36AWG				
Rating Temp Voltage		90°C 30V				
Conductor Resistance		1394 OHM/KM/20°C MAX.				
Insulation Resistance		1000 MEGA OHM/KM MIN.				
Dielectric Strength		AC 1.0 KV/Minute				
Spark Test		0.5 KV				
Insulation	Unaged	Tensile Strength	2500 PSI MIN. (1.76 Kg/m m ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN. 75% (168HRS×232°C)			
		Elongation	UNAGED MIN. 75% (168HRS×232°C)			
Jacket	Unaged	Tensile Strength	2500 PSI MIN. (1.76 Kg/m m ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN. 75% (168HRS×232°C)			
		Elongation	UNAGED MIN. 75% (168HRS×232°C)			
Nom. Impedance		50 ± 3 Ohms				
Nom. Capacitance		96 ± 3 pf/m				
Nom. Vel. of Prop.		69%				
VSWR Test (0 – 6 GHZ)		Less 1.3				
Flame Test		VW-1 OK				
Attenuation (dB/1m)	1GHZ	2GHZ	3GHZ	4GHZ	5GHZ	6GHZ
	2.7	4.0	5.0	5.9	7.0	7.8