



### SEAMLESS ALUMINUM TUBE CABLE .500, 750M

#### General

Cable Type	Series 500
Inner Conductor	Copper Clad Aluminum
Dielectric	Foam PE
Outer Conductor	Seamless Aluminum Tube
Jacket Material	PE
Jacket Color	Black
Print	White ink, legible, cannot be wiped off by fingers
Packing	Plastic caps on both ends. Film stretch wrapped, 750m per wooden reel

#### Dimensions

Inner Conductor Diameter	2.77 mm	0.109 in	
Foam Dielectric Diameter	11.43 mm	0.450 in	
Thickness of Outer Conductor	0.61 mm	0.024 in	
Diameter Over Jacket	14.22 mm	0.560 in	
Reel	Flange Diameter	850 mm	33.5 in
	Hub Diameter	400 mm	15.7 in
	Traverse Width	520 mm	20.5 in

#### Mechanical

Operating Temperature	-40°C to +70°C
Bend Radius	6"(152mm) Min.
UV Resistance	UL 1581
Dielectric Shear Adhesion	60lbf (267N)

#### Electrical

Impedance	75 ± 2 Ohms	
Capacitance	50 ± 3 pF / km	15.24 ± 0.91 pF / kft
DC Resistance Inner Conductor	4.66 Ohms / km	1.42 Ohms / kft
DC Resistance Loop	5.87 Ohms / km	1.79 Ohms / kft
Velocity of Propagation	87 %	
Jacket Spark Test Voltage (rms)	5000 V	
Return Loss 5-1000 MHz	30 dB	

#### Attenuation @ 20 °C (68 °F)

Freq. (MHz)	dB/100m	dB/100ft	Freq. (MHz)	dB/100m	dB/100ft
5	0.52	0.16	550	5.97	1.82
30	1.31	0.40	600	6.30	1.92
55	1.80	0.55	750	7.12	2.17
108	2.50	0.76	870	7.69	2.34
150	2.95	0.90	1000	8.30	2.52
211	3.58	1.09	1300	9.69	2.95
250	3.94	1.20	1500	10.55	3.22
300	4.30	1.31	1800	11.78	3.59
350	4.69	1.43	2500	14.52	4.43
400	5.02	1.53	2700	15.22	4.64
450	5.35	1.63	3000	16.25	4.95
500	5.67	1.73			

#### Compliance

Applicable	SCTE 15 2022 RoHS2.0
Warranty	3 years

#### Applications:

Cables are used to distribute radio frequency (RF), digital signals and power as applicable.



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