

LLA300 & LLA300LSZH Coaxial Cable Foil & Braid Low Loss Flexible Communication

Cable Construction			Electrical Characteristics		
Inner	Solid bare copper, 1.78mm		Velocity of propagation	85 %	
Dielectric	Foam Polyethylene, Ø 4.83mm		Dielectric constant	1.38	
Outer	Aluminium tape, Ø 4.98 mm		Time delay	3.92 ns/m	
Braid	Overall tinned copper braid, Ø 5.72		Impedance	50 Ohm	
Outer Jacket	Polyethylene (PE), Ø 7.62 mm		Capacitance	78.4 pF/m	
			Inductance	0.20 µH/m	
			Shielding effectiveness	>90 dB	
Mechanical & Thermal Characteristics			DC Resistance	Inner Conductor	7.0 Ohm/km
Bending radius	Installed	22.2 mm		Outer Conductor	7.3 Ohm/km
	repeated	76.2 mm	Voltage withstand	2000 V	
Bending		0.52 N/m	Jacket spark	5000 V rms	
Weight		80 kg/km	Peak power	10 kW	
Tensile		54.5 kg	Attenuation	see table	
Flat plate		0.54 kg/mm			
Temperature Range	Installation	-40 °C up to			
	Storage	-70 °C up to			
	Operating	-40 °C up to			

Frequency (MHz)	Attenuation (dB/100m)	Avg. Power (kW)
30	3.5	2.09
50	4.5	1.62
150	7.9	0.92
220	9.6	0.76
450	13.8	0.52
900	19.9	0.36
1500	26.0	0.28
1800	28.7	0.25
2000	30.3	0.24
2500	34.2	0.21
5800	54.2	0.13

