

500M

500无缝铝管自承电缆，黑色PE护套。

500 Seamless Aluminum Tube Cable With Messenger, Black PE Jacket.



材料特性 Material Specification

内导体 Inner Conductor	铜包铝 Copper Clad Aluminum	2.77±0.03 mm
绝缘 Dielectric	发泡聚乙烯 Foam Polyethylene	11.48±0.10 mm
外导体 Outer Conductor	挤压铝管 Extruded Aluminum Tube	12.7±0.10 mm
吊线 Messenger Wire	镀锌钢丝 Galvanized Steel	2.77±0.03 mm
护套 Jacket	聚乙烯 PE	14.22±0.20 mm
外导体厚度 Outer Conductor Thickness, nom	——	0.61 mm
护套厚度 Jacket Thickness ,min	——	0.53 mm

电气特性 Electrical Specification

特性阻抗 Characteristic Impedance	75±2 Ω	
传输速率 Velocity of Propagation	87%	
电容 Capacitance	50.2 PF/m	
护套火花试验电压 Jacket Spark Test Voltage	5 KV	
工作频率 Operating Frequency Band	5-3000 MHz	
内导体直流电阻 DC Resistance, Inner Conductor, max	4.66 Ω/km	1.42 Ω/kft
外导体直流电阻 DC Resistance, Out conductor, max	1.21 Ω/km	0.37 Ω/kft
环路直流电阻 DC Resistance, Loop , max	5.87 Ω/km	1.79 Ω/kft
结构回波损耗 SRL min	5-1002 MHz	30 dB
	1002-1218 MHz	24 dB
	1218-1794 MHz	20 dB
	1794-2250 MHz	20 dB
	2250-3000 MHz	20 dB

机械特性 Mechanical Specifications

最小弯曲半径 Bending Radius ,Min.	88.9 mm
拉力 Pulling Tension, max	136 kg
护套抗拉 Jacket Tensile,min	10.3 MPa
护套延伸 Jacket Elongation,min	400%

环境特性 Environmental Specifications

安装温度 Installation Temperature	-55°C~+85°C
工作温度 Operating Temperature	-40°C~+60°C
贮存温度 Storage Temperature	-55°C~+85°C
RoHS 2011/65/EU	Compliant

衰减 Attenuation @ 20°C max

Frequency, MHz	dB/100ft	dB/100m	Frequency, MHz	dB/100ft	dB/100m
5	0.16	0.52	750	2.17	7.12
55	0.55	1.80	870	2.35	7.69
211	1.09	3.58	1002	2.54	8.32
250	1.20	3.94	1218	2.83	9.28
270	1.24	4.06	1500	3.26	10.68
300	1.31	4.30	1794	3.62	11.88
330	1.38	4.53	1800	3.63	11.91
350	1.43	4.69	2000	3.87	12.68
400	1.53	5.02	2200	4.10	13.44
450	1.63	5.35	2500	4.43	14.52
500	1.73	5.67	2700	4.64	15.22
550	1.82	5.97	3000	4.95	16.25
600	1.92	6.30			