

型号 Cable Type : PLA110

PLA系列高精密稳幅稳相测试电缆(一体式铠甲)
Amplitude and Phase Stable Testing Cable
(Integrated Armor)



结构 Construction	材料 Materials	尺寸 O.D (mm)
1.中心导体 Center Conductor	镀银铜 Silvered Copper	0.31
2.绝缘层 Dielectric	低密度聚四氟乙烯 Low Density PTFE	0.88
3.内屏蔽层 Inner Shield	镀银铜带绕包 Silvered Copper Tape Wrapping	1.00
4.中间层 Middle Layer	低密度聚四氟乙烯 Low Density PTFE	1.20
5.外屏蔽层 Outer Shield	镀银铜丝编织 Braided Silvered Copper Wire	1.45
6.护套 Jacket	蓝色氟塑料 Blue FEP	1.85
7-10.铠甲 Armor	复合材料 Compound Material	3.84

电气性能 Electrical Specifications	
阻抗 Cable Impedance	50 Ω
速率 Velocity	80%
屏蔽效率 Shielding Effectiveness	>90 dB
耐电压 Voltage Withstanding	400 V DC
工作频率 Operating Frequency	DC-110 GHz
弯曲幅度稳定性 Amplitude Stability vs Flexure	<±0.1 dB
机械相位稳定性 Mechanical Phase Stability	<±8°

机械环境性能 Mechanical & Environmental Specifications	
弯曲次数 Bending Times	50,000 Times
弯曲半径, 静态 Bend Radius, static	30 mm
弯曲半径, 动态 Bend Radius, dynamic	50 mm
温度范围 Temperature Range	-55 ~ +125 °C

衰减典型值 Attenuation (Typical Value @ 25°C & Sea Level)		
频率 Frequency (MHz)	功率 Power (W)	衰减 Attenuation (dB/m)
1000	39	1.14
3000	22	1.99
6000	16	2.83
8500	13	3.38
12400	11	4.11
18000	9	4.99
26500	7	6.12
40000	6	7.60
50000	5	8.57
67000	4	10.03
110000	3	13.14