

型号 Cable Type : PLA67

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 | 0.50 |
| 2.绝缘层 Dielectric | 低密度聚四氟乙烯 Low Density PTFE | 1.38 |
| 3.内屏蔽层 Inner Shield | 镀银铜带绕包 Silvered Copper Tape Wrapping | 1.54 |
| 4.中间层 Middle Layer | 低密度聚四氟乙烯 Low Density PTFE | 1.82 |
| 5.外屏蔽层 Outer Shield | 镀银铜丝编织 Braided Silvered Copper Wire | 2.17 |
| 6.护套 Jacket | 蓝色氟塑料 Blue FEP | 2.40 |
| 7-10.铠甲 Armor | 复合材料 Compound Material | 4.80 |

| 电气性能 Electrical Specifications | |
|--|-----------|
| 阻抗 Cable Impedance | 50 Ω |
| 速率 Velocity | 81% |
| 屏蔽效率 Shielding Effectiveness | >90 dB |
| 耐电压 Voltage Withstanding | 500 V DC |
| 工作频率 Operating Frequency | DC-67 GHz |
| 弯曲幅度稳定性 Amplitude Stability vs Flexure | <±0.05 dB |
| 机械相位稳定性 Mechanical Phase Stability | <±5° |

| 机械环境性能 Mechanical & Environmental Specifications | |
|--|---------------|
| 弯曲次数 Bending Times | 100,000 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) |
| 300 | 179 | 0.35 |
| 1000 | 97 | 0.64 |
| 3000 | 55 | 1.12 |
| 6000 | 39 | 1.60 |
| 8500 | 32 | 1.93 |
| 12400 | 26 | 2.35 |
| 18000 | 22 | 2.87 |
| 26500 | 17 | 3.54 |
| 40000 | 14 | 4.44 |
| 50000 | 12 | 5.03 |
| 67000 | 10 | 5.93 |