

## 5/8" RF 射频电缆



### 结构参数

#### Construction Specification

|                       | 材料 Material   | 直径 Diameter(mm) |
|-----------------------|---|-----------------|
| 1.内导体 Inner Conductor | 光铜管 Smooth Copper Tube  | 7.0             |
| 2.绝缘体 Dielectric      | 发泡聚乙烯 Foam PE   | 18.0            |
| 3.外导体 Outer Conductor | 轧纹铜管 Corrugated Copper Tube                                     | 19.7            |
| 4.护套 Jacket           | 聚乙烯或低烟无卤防火聚乙烯<br>PE or Low Smoke Halogen-free Fire-retardant PE | 21.9            |

### 电性能参数&机械性能及环境参数 Electrical Characteristics & Mechanical and Environmental Characteristics

|  |            |           |
|--|------------|-----------|
| 阻抗 Impedance(Ohm)                              |            | 50        |
| 电容 Capacitance(pF/m)                           |            | 76        |
| 速率 Velocity(%)                                 |            | 88        |
| 峰值功率 Peak Power Rating(KW)                     |            | 62        |
| RF 峰值电压 RF Peak Voltage(KV)                    |            | 2.5       |
| 绝缘阻抗 Insulation Resistance(MΩ.km)              |            | >5000     |
| 截止频率 Cut-off Frequency(GHz)                    |            | 6.5       |
| 绝缘电压 Insulation Voltage(KV)                    |            | 8         |
| 内导体直流电阻 Inner Conductor DC Resistance(Ω/km)    |            | 1.32      |
| 外导体直流电阻 Outer Conductor DC Resistance(Ω/km)    |            | 1.43      |
| 护套电压 Jacket Spark(KV)                          |            | 8.0       |
| 屏蔽衰减 Shielding Effectiveness(dB)               |            | >120      |
| 驻波比 ≤ (回波损耗 ≥ dB)<br>VSWR ≤ (Return loss ≥ dB) | 0.005—3GHz | 1.15 (23) |
|  | 0.8—1.0GHz | 1.10 (26) |
|  | 1.7—2.0GHz | 1.10 (26) |
|  | 2.0—2.4GHz | 1.10 (26) |
| 最小单次弯曲半径 Min. Single Bending Radius(mm)        |            | 73        |
| 最小多次弯曲半径 Min. Repeated Bending Radius(mm)      |            | 200       |
| 弯曲次数 No. of Bends                              |            | 15        |
| 抗拉强度 Tensile Strength(kg)                      |            | 115       |
| 贮存温度 Storage Temp.(°C)                         |            | -55~+85   |
| 安装温度 Installation Temp.(°C)                    |            | -40~+60   |
| 工作温度 Operating Temp.(°C)                       |            | -55~+85   |

**衰减(驻波比 1.0, 电缆温度 20℃)及平均功率(驻波比 1.0, 环境温度 40℃)  
Attenuation(VSWR1.0,cable temp.20℃)and Average Power( VSWR1.0,ambient  
temp.40℃)**

| 频率<br>Frequency(MHz) | 衰减<br>Attenuation(dB/100m) | 平均功率<br>Average Power(KW) |
|----------------------|----------------------------|---------------------------|
| 100                  | 1.49                       | 5.71                      |
| 200                  | 2.14                       | 3.97                      |
| 450                  | 3.28                       | 2.58                      |
| 800                  | 4.48                       | 1.89                      |
| 900                  | 4.77                       | 1.77                      |
| 1000                 | 5.06                       | 1.67                      |
| 1500                 | 6.42                       | 1.33                      |
| 1800                 | 7.02                       | 1.20                      |
| 2000                 | 7.46                       | 1.13                      |
| 2200                 | 7.87                       | 1.10                      |
| 2400                 | 8.27                       | 1.03                      |
| 2500                 | 8.60                       | 0.99                      |
| 3000                 | 9.41                       | 0.89                      |