

HCAHY-50-5 (1/4" s)



| Construction | | |
|---------------------------------------|---|--------------|
| | Material | Diameter(mm) |
| Inner Conductor | Copper Clad Aluminum Wire | 1.90 |
| Dielectric | Foamed PE | 4.70 |
| Outer Conductor | Helical Corrugated Copper Tube | 6.35 |
| Jacket | PE or Low Smoke Halogen-free Fire-retardant PE | 7.50 |
| Electrical & Mechanical Properties | | |
| Impedance (Ohm) | | 50±1 |
| Capacitance(pF/m) | | 80 |
| Velocity(%) | | 83 |
| Peak Power Rating(kw) | | 6.4 |
| RF Peak Voltage (kv) | | 0.80 |
| Insulation Resistance(M Ω . km) | | >5000 |
| Cut-off Frequency(GHz) | | 20.4 |
| Insulation Voltage(kv) | | 2.0 |
| Inner Conductor DC Resistance(Ω /km) | | 9.5 |
| Outer Conductor DC Resistance(Ω /km) | | 5.7 |
| Jacket Spark(kv) | | 3.0 |
| Shielding Effectiveness(dB) | | >120 |
| Min. Single Bending Radius(mm) | | 12.5 |
| Min. Repeated Bending Radius(mm) | | 25 |
| No. of Bends | | 15 |
| Tensile Strength(kg) | | 60 |
| Storage Temp.(°C) | | -55~+85 |
| Installation Temp.(°C) | | -40~+60 |
| Operating Temp.(°C) | | -55~+85 |
| VSWR≤ (Return loss≥dB) | Frequency | 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) |

Attenuation (VSWR1.0,cable temp.20℃) and Average Power (VSWR1.0,ambient temp.40℃)

| Frequency(MHz) | Attenuation(dB/100m) | Average Power(kw) |
|----------------|----------------------|-------------------|
| 100 | 5.60 | 1.23 |
| 200 | 8.00 | 0.86 |
| 450 | 12.20 | 0.57 |
| 800 | 16.70 | 0.42 |
| 900 | 17.50 | 0.39 |
| 1000 | 18.60 | 0.37 |
| 1500 | 23.40 | 0.30 |
| 1800 | 25.70 | 0.27 |
| 2000 | 26.90 | 0.26 |
| 2200 | 28.50 | 0.25 |
| 2400 | 30.00 | 0.24 |
| 2500 | 30.60 | 0.23 |
| 3000 | 33.50 | 0.21 |