

1/4" Flexible RF Coaxial Cable



| Part No. | HCAA(Y/Z)-50-6 | |
|-------------------------------------|--------------------------------|----------------|
| Material and dimensions | | |
| Inner conductor | Copper Clad Aluminum wire | Ø 2.60±0.03 mm |
| Insulation | Foam PE | Ø 6.70±0.20 mm |
| Outer conductor | Annular corrugated copper tube | Ø 7.70±0.20mm |
| Jacket | PE Black or FNRC | Ø 9.50 ±0.20mm |
| Electrical Specifications | | |
| Impedance | 50 ± 1 Ω | |
| Relative Velocity of Propagation | 85% | |
| Capacitance | 78 pF/m | |
| Maximum Operating Frequency | 19 GHz | |
| Peak Power Rating | 7.5kW | |
| Insulation Resistance | > 10000 M Ω .km | |
| DC Breakdown Voltage | 2000V | |
| Jacket Spark Test Voltage | 3000 Vrms | |
| Inner Conductor DC-resistance | ≤5.52 Ω /km | |
| Outer Conductor DC-resistance | ≤4.65 Ω /km | |
| Shielding Attenuation | ≥120dB | |
| Environmental Specifications | | |
| | PE | FRNC |
| Installation Temperature | -40°C to +60°C | -20°C to +60°C |
| Operating Temperature | -55°C to +85°C | -30°C to +80°C |
| Storage Temperature | -70°C to +85°C | -30°C to +80°C |
| Mechanical Specifications | | |
| Cable weight PE | ≈90 kg/km | |
| Cable weight FRNC | ≈100 kg/km | |



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|---|---|--------------------|
| Tensile strength | 560 N | |
| Min. bending radius (single) | 40 mm | |
| Min. bending radius (repeated) | 80 mm | |
| Bending moment | 1.4 Nm | |
| Flat plate crush strength | 14 N/mm | |
| Standard Conditions | | |
| Attenuation, VSWR 1.0 Ambient Temperature | 20°C | |
| Average Power, VSWR 1.0 Ambient Temperature | 40°C | |
| Average Power, Inner Conductor Temperature | 100°C | |
| PIM | ≤-160dBc | |
| VSWR | 800MHz - 1000MHz ≤ 1.10 1700MHz - 2200MHz ≤ 1.15 2200MHz - 4000MHz ≤ 1.20 | |
| Attenuation | | |
| Frequency (MHz) | Attenuation (dB/100m) | Average Power (KW) |
| 200 | 6.10 | 1.25 |
| 450 | 9.15 | 0.82 |
| 800 | 12.8 | 0.58 |
| 900 | 13.35 | 0.55 |
| 1800 | 19.52 | 0.38 |
| 2000 | 20.63 | 0.36 |
| 2200 | 21.87 | 0.34 |
| 2500 | 23.45 | 0.31 |
| 2700 | 25.20 | 0.29 |
| 3000 | 26.90 | 0.28 |
| 3500 | 29.60 | 0.27 |
| 3800 | 30.46 | 0.26 |
| 4000 | 31.55 | 0.25 |

* Maximum attenuation value shall be 105% of the nominal attenuation value



| Regulatory compliance/Certifications. | |
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| RoHs 2011/65/EU | Compliance |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| China RoHS SJ/T 11364-2006 | Below Maximum Concentration Value (MCV) |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| Fire | IEC 60754-1、-2; IEC 60332-1、-2; IEC 61034-1、-2; IEC 60332-3-24. |