# RF50-7/8-F

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| Part Name  | Material  | Diameter（mm）  |
| Inner conductor  | Copper.Smooth solid tube  | 9.0±0.05 |
| Dielectric  | Foamed Polyethylene  |  22.5±0.35 |
| Outer conductor  | Corrugated Copper Tube,.SIN wave style  | 24.9±0.3 |
| Jacket  | PE, Halogen Free, UV Protection  | 27.7±0.3 |

##  Structural Parameters

## Technical Specifications

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| --- | --- |
| Max Operation Frequency | ≥ 5Ghz |
| Impedance | 50 Ω |
| Return Loss (dB) | 0 - 2200 MHz: ≥ 232200 - 2700 MHz: ≥ 21 |
| Capacitance | 73.5 pF/m ± 1% |
| Inductance | 0.184 µH/m ± 1% |
| Insulation Resistance | ≥ 10000 MΩ.km |
| Velocity | 88% |
| Peak Power Rating | 91 KW |
| RF Peak Voltage | 3.0 KV |
| Insulation Voltage | 10 KV |
| Inner Conductor DC Resistance | ≤1.5 Ω/KM |
| Outer Conductor DC Resistance | ≤1.34 Ω/KM |
| Jacket Spark | 8.0 KV |
| Shielding Effectiveness | ＞120 dB |
| Operating Temperature | -55~+85 °C |
| Application | Indoor or Outdoor (IP68) |
| Attenuation(dB/100m) | 1.83@800MHz2.08@900MHz4.08@1800MHz4.47@2000MHz4.85@2100MHz5.20@2400MHz5.39@2500MHz5.74@2700MHz6.24@3000MHz |
| Power Rating (kW)  | ≥ 2.26@900Mhz≥ 1.54@1800Mhz≥ 1.41@2100Mhz≥ 1.23@2700Mhz |

## Mechanical Specifications

|  |  |
| --- | --- |
| Tensile strength  | 1500N |
| No.of Bends  | 15 |
| Min single bending radius  | ≤127mm |
| Min Repeated bending radius  | ≤250mm |
| Weight(kg/km) | ≥410 |
| Maximum clamp spacing(m) | ≥0.8 |
| Bending moment(Nm) | ≥13 |

## Drawing

