# 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

|  |  |
| --- | --- |
| Max Operation Frequency | ≥ 5Ghz |
| Impedance | 50 Ω |
| Return Loss (dB) | 0 - 2200 MHz: ≥ 23  2200 - 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@800MHz  2.08@900MHz  4.08@1800MHz  4.47@2000MHz  4.85@2100MHz  5.20@2400MHz  5.39@2500MHz  5.74@2700MHz  6.24@3000MHz |
| Power Rating (kW) | ≥ [2.26@900Mhz](mailto:2.26@900Mhz)  ≥ [1.54@1800Mhz](mailto:1.54@1800Mhz)  ≥ [1.41@2100Mhz](mailto:1.41@2100Mhz)  ≥ [1.23@2700Mhz](mailto: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

