# RF50-1/2-F

## Structural Parameters

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| Part Name  | Material  | Diameter（mm）  |
| Inner conductor  | Copper Clad Aluminum Smooth solid tube  | 4.8±0.05 |
| Dielectric  | Foamed Polyethylene  | 12.3±0.2 |
| Outer conductor  | Corrugated Copper TubeSIN wave style  | 13.8±0.2 |
| Jacket  | PE. Halogen Free. UV Protection  | 15.7±0.2 |

## Technical Specifications

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| --- | --- |
| Max Operation Frequency | ≥ 8.8Ghz |
| Impedance | 50Ω |
| Return Loss (dB) | 0 - 2700 MHz: ≥ 23 |
| Capacitance | 76 pF/m |
| Inductance | 0.19 µH/m ± 1% |
| Insulation Resistance | ≥ 10000 MΩ.km |
| Velocity | 88% |
| Peak Power Rating | 40 KW |
| RF Peak Voltage | 1.95 KV |
| Insulation Voltage | 6 KV |
| Inner Conductor DC Resistance | ≤1.48 Ω/KM |
| Outer Conductor DC Resistance | ≤2.3 Ω/KM |
| Jacket Spark | 8.0 KV |
| Shielding Effectiveness | ＞120 dB |
| Operating Temperature | -55~+85 °C |
| Application | Indoor or Outdoor (IP68) |
| Attenuation(dB/100m) | 5.22@800MHz5.70@900MHz9.23@1800MHz9.9@2000MHz10.55@2100MHz11.17@2400MHz11.48@2500MHz12.07@2700MHz12.93@3000MHz19.82@5800MHz |
| Power Rating (kW)  | ≥ 1.11@900Mhz≥ 0.77@1800Mhz≥ 0.71@2100Mhz≥ 0.62@2700Mhz |

## Mechanical Specifications

|  |  |
| --- | --- |
| Tensile strength  | 1130N |
| No.of Bends  | 15 |
| Min single bending radius  | ≤70mm |
| Min Repeated bending radius  | ≤125mm |
| Weight(kg/km) | ≥200 |
| Maximum clamp spacing(m) | ≥0.6 |
| Bending moment(Nm) | ≥3.8 |

## Drawing

