



| | Designation | Material | Diameter (mm) |
|---|-----------------|--------------------------------|---------------|
| 1 | Inner Conductor | Copper-Clad Aluminum wire | 4.80 |
| 2 | Dielectric | Physical Foam Polyethylene | Nom. 12.2 |
| 3 | Outer Conductor | Regular Corrugated Copper Tube | 13.90 |
| 4 | Jacket | Black polyethylene, PE | 15.70 |

| | |
|--------------------------|----------------------------|
| Impedance | 50 Ohm |
| Max Operating Frequency | 8800 MHz |
| Velocity | 88 % |
| Capacitance | 76 pF/m |
| Passive inter-modulation | -155 dBc @ 2 x 20W (43dBm) |
| RF Peak Power Rating | 40 KW |
| RF Peak Voltage | 4000 V |
| Jacket Spark Test (RMS) | 8000 V |
| Dielectric Resistance | 5000 MOhm / Km |

Attenuation and Average Power

| Frequency (MHz) | Attenuation (dB/100m) | Average Power (KW) |
|-----------------|-----------------------|--------------------|
| 450 MHz | 4.75 | 1.61 |
| 824 MHz | 6.56 | 1.16 |
| 960 MHz | 7.12 | 1.07 |
| 1000 MHz | 7.28 | 1.05 |
| 1800 MHz | 10.06 | 0.76 |
| 2000 MHz | 10.67 | 0.72 |
| 2200 MHz | 11.25 | 0.68 |
| 2500 MHz | 12.09 | 0.63 |
| 2700 MHz | 12.63 | 0.60 |

*Max value shall be 110% of nominal attenuation value

Return Loss (VSWR)

| | |
|---------------|--------------|
| 824~960 MHz | -24.3 (1.13) |
| 1710~2170 MHz | -24.3 (1.13) |

Mechanical Specifications

| | |
|---------------------------------|---------------|
| Min Bend Radius, Multiple Bends | 125 mm |
| Min Bend Radius, Single Bend | 50 mm |
| Bending moment | 3.8 Nm |
| Tensile strength | 1100 N |
| Operating Temperature | -55°C ~ +85°C |
| Installation Temperature | -40°C ~ +60°C |
| Storage Temperature | -70°C ~ +85°C |
| Relative humidity | 0 ~ 95% |

Environment Specifications

7 Banned and Restricted Substances