

AAF-15-ST-JJ

1-5/8" Low Loss Coaxial Cable



| Electrical Characteristics | | | | | | | | | | | | | |
|-------------------------------|---------------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Impedance | | 50±1.5Ω | | | | | | | | | | | |
| Frequency | | DC-2.7 GHz | | | | | | | | | | | |
| Cut-off Frequency | | 3.0 GHz | | | | | | | | | | | |
| Velocity | | 87% | | | | | | | | | | | |
| Capacitance | | 76 p F/m | | | | | | | | | | | |
| RF Peak Power Rating | | 310 kW | | | | | | | | | | | |
| Peak Voltage | | 5600 V | | | | | | | | | | | |
| Dielectric Strength | | 15.0 kV | | | | | | | | | | | |
| Insulation Resistance | | > 1x10 ⁴ MΩ/km | | | | | | | | | | | |
| Inner Conductor DC Resistance | | 1.54 Ω/km | | | | | | | | | | | |
| Outer Conductor DC Resistance | | 0.58 Ω/km | | | | | | | | | | | |
| VSWR | 800-1000 MHz | 1.15 | | | | | | | | | | | |
| | 1700-2500 MHz | 1.20 | | | | | | | | | | | |
| | 2500-2700 MHz | 1.20 | | | | | | | | | | | |
| Frequency (MHz) | | 200 | 450 | 800 | 900 | 1000 | 1500 | 1800 | 2000 | 2200 | 2500 | 2700 | |
| Attenuation (20° C) | at 100 m | 0.99 dB | 1.66 dB | 2.19 dB | 2.39 dB | 2.55 dB | 3.34 dB | 3.62 dB | 3.85 dB | 4.22 dB | 4.43 dB | 4.85 dB | |
| Average Power | | 11.30 kW | 7.18 kW | 5.15 kW | 4.97 kW | 4.52 kW | 3.54 kW | 3.17 kW | 2.96 kW | 2.87 kW | 2.58 kW | 2.40 kW | |

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

| Mechanical and Environmental Characteristics | | |
|--|---------------------------------|------------------|
| Bend Radius (min) | Single | 280 mm |
| | Repeated | 500 mm |
| Tensile Strength | | 3000 N |
| Cable Weight | | 1050 kg/km |
| Temperature | Storage | -70° C to +85° C |
| | Installation | -40° C to +60° C |
| | Operating | -55° C to +85° C |
| Construction | Material | Diameter |
| Inner Conductor | Helical Corrugated Copper Tube | 17.3 ± 0.15 mm |
| Insulation | Foamed Polyethylene (PE) | 42.7 ± 0.30 mm |
| Outer Conductor | Annular Corrugated Copper Tube | 46.5 ± 0.30 mm |
| Jacket | LLDPE (wall thickness > 1.3 mm) | 49.6 ± 0.30 mm |

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.