

| | | COAX CO., LTD. SC-086/50-SCN-CN | COAX CO., LTD. SC-086/50-CN-CN | COAX CO., LTD. SC-086/50-NbTi-CN | | |
|------------------------------|---------------------------------|---------------------------------|--|--|--|-----------------|
| Physical Structure | Materials | Center Conductor | Silver-plated cupronickel | Cupronickel | Niobium Titanium | |
| | | Dielectric | PTFE | PTFE | PTFE | |
| | | Outer Conductor | Cupronickel | Cupronickel | Cupronickel | |
| | Dimensions | Center Conductor | 0.203+/-0.013mm (0.0080+/-0.0005 inch) | 0.203+/-0.013mm (0.0080+/-0.0005 inch) | 0.203+/-0.013mm (0.0080+/-0.0005 inch) | |
| | | Dielectric | 0.66+/-0.0254mm (0.026+/-0.001 inch) | 0.66+/-0.0254mm (0.026+/-0.001 inch) | 0.66+/-0.0254mm (0.026+/-0.001 inch) | |
| | | Outer Conductor | 0.86+/-0.0254mm (0.034+/-0.001 inch) | 0.86+/-0.0254mm (0.034+/-0.001 inch) | 0.86+/-0.0254mm (0.034+/-0.001 inch) | |
| Electrical Properties | Thermal Conductivity @4K | | 7.07E-05 W·cm/K | 9.80E-06 W·cm/K | | |
| | Characteristic Impedance | | 50+/-2.5ohms | 50+/-2.5ohms | 50+/-3.0ohms | |
| | Corona Extinction Voltage @60Hz | | 2000VRMS | 2000VRMS | 750VRMS | |
| | Maximum Operating Frequency | | 154GHz | 154GHz | 154GHZ | |
| | Average Capacitance | | 95.2pF/m | 95.2pF/m | 96.2pF/m | |
| | Attenuation @300K & @4K | 0.5GHz | 300K | 2.1dB/m | 5.4dB/m | 6.9dB/m |
| | | | 4K | 1.0dB/m | 4.1dB/m | 1.21dB/m |
| | | 1.0GHz | 300K | 3.0dB/m | 7.7dB/m | 9.7dB/m |
| | | | 4K | 1.5dB/m | 5.7dB/m | 1.8dB/m |
| | | 5.0GHz | 300K | 6.7dB/m | 17.1dB/m | 21.8dB/m |
| | | | 4K | 3.2dB/m | 12.8dB/m | 4.0dB/m |
| | | 10.0GHz | 300K | 9.5dB/m | 24.3dB/m | 30.9dB/m |
| 4K | | | 4.6dB/m | 18.1dB/m | 5.6dB/m | |
| 20.0GHz | | 300K | 13.4dB/m | 34.6dB/m | 43.9dB/m | |
| | | 4K | 6.5dB/m | 25.7dB/m | 7.9dB/m | |
| Mechanical Properties | | Operating Temperature | | -40°C to +100°C | -40°C to +100°C | -40°C to +100°C |
| | | Minimum Inside Bend Radius | | 3.2mm | 3.2mm | 3.2mm |
| | Standard Length | | 1 or 2m | 1 or 2m | 1m | |

| | | AMAWAVE M17/154-00001 | |
|------------------------------|---------------------------------|-----------------------------------|---------------------|
| Physical Structure | Materials | Center Conductor | SPCW |
| | | Dielectric | PTFE |
| | | Outer Conductor | Copper |
| | Dimensions | Center Conductor | 0.2032mm (0.0080in) |
| Dielectric | | 0.660 ± 0.025mm (0.026 ± 0.001in) | |
| Outer Conductor | | 0.864 ± 0.025mm(0.034 ± 0.001in) | |
| Electrical Properties | Characteristic Impedance | | 50 Ohms |
| | Corona Extinction Voltage @60Hz | | 2100VRMS |
| | High Order Mode Frequency | | 155GHz |
| | Average Capacitance | | 95.2pF/m |
| | Attenuation (dB/100Ft Typical) | 0.5 GHz | 34 |
| | | 1.0 GHz | 48.3 |
| | | 5.0 GHz | 110.4 |
| | | 10.0 GHz | 158.5 |
| | | 18.0 GHz | 216.5 |
| | | 26.5 GHz | 266.6 |
| | | 40.0 GHz | 333.7 |
| 50.0 GHz | | 377.5 | |
| 65.0 GHz | | 437 | |
| 90.0 GHz | 525.5 | | |
| Mechanical Properties | Operating Temperature | | 150°C to +125°C |
| | Minimum Inside Bend Radius | | 1.27mm |
| | Standard Length | | 4.57m maximum |