

1/2" Super flex Cable

Product Features

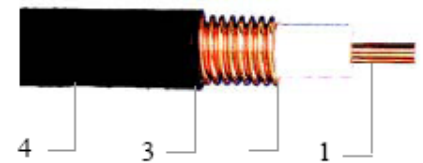
This 1/2" super flex cable is used for base station which includes wireless mobile communication, cellular, microwave and broadcast applications.

Technical Specifications

| | |
|--|-------------------------------|
| Model No | 500 009 02 |
| Construction Specifications | |
| Inner conductor | Copper clad aluminium wire |
| Dielectric | Physical Foam Polyethylene |
| Outer Conductor | Helically Corrugated Copper |
| Jacket | PE or fire retardant PE |
| Physical Dimensions | |
| Inner conductor diameter | 3.60 +/- 0.4mm |
| Dielectric diameter | 8.80 +/- 0.20mm |
| Outer Conductor diameter | 12.20 +/- 0.20 mm Over Jacket |
| Jacket Diameter | 13.40 +/- 0.20 - 0.00mm |
| Electrical Specifications | |
| Capacitance | 82 pF/m |
| Impedance | 50 +/- 1 |
| Velocity Percent | 81 |
| DC break down voltage | 2.5 KV |
| Peak Power | 15.6 kW |
| Insulation Resistance | > 5 x 10 ⁸ MΩ / Km |
| Cut - off frequency | 10.2GHz |
| Screening attenuation | > 120 dB |
| Mechanical & Environmental Specifications | |
| Minimum bending radius | |
| Single Bend | 25mm |
| Repeated Bend | 30mm |
| Moving Bend | 200mm |
| Pulling strength | 800 N |
| Crush Resistance | 1.9 Kg/mm |
| Tensile strength | 102 Kg (225 lb) |
| Storage temperature | -70 to +85°C |
| Installation temperature | -40 to +60°C |
| Operating temperature | -55 to +85°C |

Product Photo

1. Inner conductor
2. Insulation
3. Outer conductor
4. Jacket



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| Attenuation & Average Power | | |
|-----------------------------|------------------------------------|-----------------------------|
| Frequency MHz | Nom Attenuation at 20°C dB/100m | Average Power at 20°C KW |
| 10 | 1.04 | 10.1 |
| 100 | 3.41 | 3.08 |
| 200 | 4.91 | 2.14 |
| 450 | 7.59 | 1.38 |
| 800 | 10.4 | 1.01 |
| 900 | 11.2 | 0.943 |
| 1000 | 11.8 | 0.889 |
| 1500 | 14.9 | 0.705 |
| 1800 | 16.6 | 0.634 |
| 2000 | 17.6 | 0.597 |
| 2500 | 19.7 | 0.535 |
| 3000 | 22.4 | 0.469 |
| VSWR | | |
| 800 - 1000 MHz | ≤ 1.15 | |
| 1700 - 2200 MHz | ≤ 1.15 | |
| 5 - 3000 MHz | ≤ 1.25 | |

Note: For fire retardant jackets the recommended temperatures are

Storage temperature ° C : -30 to +80
 Installation temperature ° C : -25 to +60
 Operating temperature ° C : -30 to +80