

## 1-5/8" Feeder Cable

### Product Features

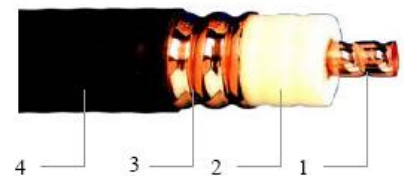
This 1-5/8" Feeder cable is used for base station which includes wireless mobile communication, cellular, microwave and broadcast applications.

### Technical Specifications

Model No	500 009 03
<b>Construction Specifications</b>	
Inner conductor	Helically corrugated copper
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper
Jacket	PE or fire retardant PE
<b>Physical Dimensions</b>	
Inner conductor diameter	17.30 +/- 0.10mm
Dielectric diameter	43.50 +/- 0.60mm
Outer Conductor diameter	46.50 +/- 0.30mm
Jacket Diameter	49.50 +/- 0.40mm
<b>Electrical Specifications</b>	
Capacitance	76 pF/m
Impedance	50 +/- 1
Velocity Percent	88
DC break down voltage	11.0kV
Peak Power	315 kW
Insulation Resistance	> 5 x 10 <sup>9</sup> MΩ / Km
Cut - off frequency	2.5 GHz
Screening attenuation	> 120 dB
<b>Mechanical &amp; Environmental Specifications</b>	
Minimum bending radius	
Single Bend mm	300mm
Repeated Bend	510mm
Pulling strength N	3630
Crush resistance	2.1kg/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 at 20°C dB/100m	Average Power at 20°C KW
10	0.202	54.30
100	0.671	16.40
150	0.834	13.20
200	0.976	11.30
300	1.22	9.01
450	1.53	7.18
800	2.13	5.15
900	2.29	4.81
1000	2.43	4.52
1500	3.11	3.54
1800	3.47	3.17
2000	3.71	2.96
2500	4.27	2.58

### 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