

## 7/8" Feeder Cable

### Product Features

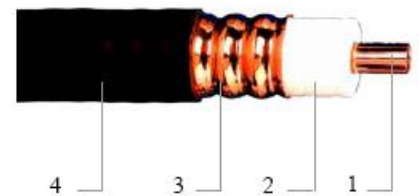
This 7/8" Feeder cable is used for base station which includes wireless mobile communication, cellular, microwave and broadcast applications.

### Technical Specifications

Model No	500 009 01
<b>Construction Specifications</b>	
Inner conductor	Smooth copper tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper
Jacket	PE or fire retardant PE
<b>Physical Dimensions</b>	
Inner conductor diameter	8.95 +/- 0.10mm
Dielectric diameter	22.50 +/- 0.40mm
Outer Conductor diameter	24.90 +/- 0.30 mm
Jacket Diameter	27.30 +/- 0.20 mm
<b>Electrical Specifications</b>	
Capacitance	75 pF/m
Impedance	50 +/- 1
Velocity Percent	88
DC break down voltage	6.0 KV
Peak Power	91 kW
Insulation Resistance	> 5 x 10 <sup>8</sup> MΩ / Km
Cut - off frequency	5 GHz
Screening attenuation	> 120 dB
<b>Mechanical &amp; Environmental Specifications</b>	
Minimum bending radius	
Single Bend	120mm
Repeated Bend	250mm
Moving Bend	500mm
Pulling strength	1470 N
Crush Resistance	1.4 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	0.366	24.60
100	1.19	7.56
200	1.72	5.26
450	2.65	3.41
800	3.63	2.48
900	3.88	2.33
1000	4.12	2.19
1500	5.18	1.74
1800	5.75	1.57
2000	6.11	1.48
2500	6.95	1.30
3000	7.76	1.16

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