

1/2" Feeder Cable

Product Features

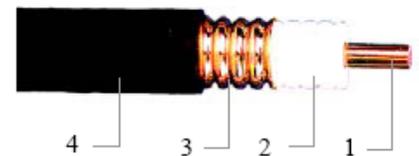
This 1/2" feeder cable is used for base station which includes wireless mobile communication, cellular, microwave and broadcast applications.

Technical Specifications

Model No	500 009 00
Construction Specifications	
Inner conductor	Copper clad aluminium wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Ring Corrugated Copper
Jacket	PE or fire retardant PE
Physical Dimensions	
Inner conductor diameter	4.80 +/- 0.05mm
Dielectric diameter	12.20 +/-0.30mm
Outer Conductor diameter	13.80 +/-0.20 mm
Jacket Diameter	15.80 +/-0.20mm
Electrical Specifications	
Capacitance	75.8 pF/m
Impedance	50 +/- 1
Velocity Percent	88
DC break down voltage kV	4.0 KV
Peak Power	40 kW
Insulation Resistance	> 5 x 10 ⁸ MΩ / Km
Cut - off frequency	8.8 GHz
Screening attenuation	> 120 dB
Mechanical & Environmental Specifications	
Minimum bending radius	
Single Bend	70mm
Repeated Bend	125mm
Moving Bend	350mm
Pulling strength	1130 N
Crush Resistance	2 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	0.672	11.30
100	2.17	3.49
200	3.10	2.44
450	4.75	1.59
800	6.46	1.17
900	6.87	1.10
1000	7.28	1.04
1500	9.09	0.833
1800	10.10	0.753
2000	10.70	0.710
2500	12.10	0.627
3000	13.40	0.565
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