

1/4" Super Flex Cable

Product Features

This 1/4" Super Flex cable is used for base station which includes wireless mobile communication, cellular, microwave and broadcast applications.

Technical Specifications

Model No	500 019 01
Construction Specifications	
Inner conductor	Copper clad aluminium wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	PE or fire retardant PE
Physical Dimensions	
Inner conductor diameter	1.9mm
Dielectric diameter	4.4mm
Outer Conductor diameter	6.5mm
Over Jacket Diameter	7.7mm
Electrical Specifications	
Capacitance	80 pF/m
Maximum frequency	20.4 GHz
Impedance	50 +/- 1
Velocity Percent	82
DC break down voltage kV	1.6 KV
Peak Power	6.4 KW
Insulation Resistance	> 3000 MΩ / Km
Cut - off frequency	25 GHz
Screening attenuation	> 120 dB
Mechanical & Environmental Specifications	
Minimum bending radius	
Single Bend	12.5mm
Multiple Bend	25mm
No of bends	15
Pulling strength	680 N
Installation temperature	-20 to +60°C
Operating temperature	-40 to +70°C

Product Photo



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Attenuation & Average Power		
Frequency MHz	Nom Attenuation dB/100m	Average Power KW
02	0.81	6.40
10	1.81	3.97
20	2.57	2.80
30	3.16	2.28
50	4.10	1.76
100	5.90	1.13
150	7.18	1.00
200	8.33	0.87
300	10.31	0.70
400	11.98	0.60
450	12.60	0.52
500	13.37	0.51
600	14.75	0.45
700	16.04	0.45
800	17.23	0.42
900	17.76	0.37
960	18.91	0.37
1000	19.41	0.37
1250	21.78	0.30
1500	24.06	0.28
1700	25.74	0.28
1800	26.08	0.25
2000	28.22	0.25
2100	28.91	0.24
2200	29.90	0.24
2400	31.42	0.21
3000	35.60	0.19

Standard Conditions:

For Attenuation VSWR 1.0 ambient temperature 20°C

For Average Power VSWR 1.0 ambient temperature 40°C

Inner Conductor temperature 100° C
No solar Loading

VSWR	
400- 500 MHz	≤ 1.10
800 - 1000 MHz	≤ 1.10
1700 - 2200 MHz	≤ 1.10
0 - 3000 MHz	≤ 1.15