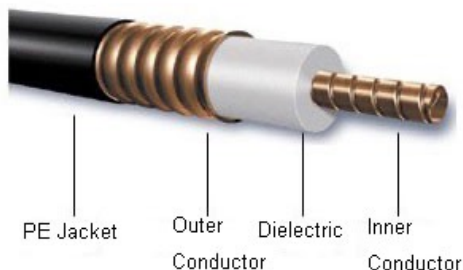


FLEXIBLE RF CABLE

HHTAY-50-42 (1-5/8")



CONSTRUCTION MATERIALS	
Inner Conductor	Helical Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	18.00 mm
Dielectric Diameter	42.80 mm
Outer Conductor Diameter	46.50 mm
Diameter Over Jacket	49.50 mm

MECHANICAL SPECIFICATIONS

Minimum Bending Radius	
Single Bending	200 mm
Repeated Bending	500 mm
Minimum Number of Bends	15
Tensile Strength	3300 N(750 lb)

ENVIRONMENTAL SPECIFICATION

Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operating Temperature	-55 °C ~ +85 °C

ELECTRICAL SPECIFICATION

Capacitance	76.0 pF/m(23.2 pF/ft)
Impedance	50±1 Ω
Velocity	88%
RF Peak Voltage	5.70 kV
Peak Power Rating	320 kW
Cut-off Frequency	2.80 GHz
Shielding Effectiveness >10MHz	>120 dB
Insulation Resistance	5000 MΩ·km
VSWR	
0.8~1.0 GHz	≤ 1.10
1.7~2.2 GHz	≤ 1.13
2.2~2.7 GHz	≤ 1.15

PERFORMANCE

Frequency MHz	Attenuation		Average Power Rating (kW)
	dB/100 m	dB/100 ft	
100	0.67	0.20	16.90
150	0.84	0.26	13.48
200	0.98	0.30	11.60
280	1.20	0.37	9.47
450	1.53	0.47	7.36
800	2.12	0.65	5.26
900	2.28	0.69	4.93
1000	2.42	0.74	4.61
1500	3.09	0.94	3.64
1800	3.45	1.05	3.27
2000	3.68	1.12	3.00
2200	3.91	1.19	2.85
2400	4.13	1.26	2.70
2500	4.24	1.29	2.61

Standard Conditions :

For attenuation : VSWR 1.0 , cable temperature 20 °C (68 °F)

For average power : VSWR 1.0 , ambient temperature 40 °C (104 °F) ,

Inner conductor temperature 100 °C (212 °F) . No solar loading .

Maximum attenuation value shall be 105% off the nominal attenuation value.