

SUPER FLEXIBLE RF CABLE

HRCAYZ-50-7



CONSTRUCTION MATERIALS

Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Helical Copper Tube
Jacket	Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS

Inner Conductor Diameter	2.60 mm
Dielectric Diameter	6.80 mm
Outer Conductor Diameter	9.10 mm
Diameter Over Jacket	10.20 mm
Weight of Cable(500m)	59.3kg

MECHANICAL SPECIFICATIONS

Minimum Bending Radius	
Single Bending	13 mm
Repeated Bending	25.0 mm
Minimum Number of Bends	15
Tensile Strength	600 N(132 lb)

ENVIRONMENTAL SPECIFICATION

Storage Temperature	-55 ℃ ~ +85 ℃
Installation Temperature	-40 ℃ ~ +60 ℃
Operating Temperature	-55 ℃ ~ +85 ℃

ELECTRICAL SPECIFICATION

Capacitance	80.0 pF/m
Impedance	50±1 Ω
Velocity	83%
RF Peak Voltage	1.04 kV
Peak Power Rating	12 kW
Cut-off Frequency	13.40 GHz
Shielding Effectiveness >10MHz	>120 dB
Insulation Resistance	10000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.13
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	4.18	1.27	1.90
150	4.95	1.51	1.60
200	5.96	1.82	1.30
280	7.00	2.13	1.11
450	9.14	2.79	0.87
800	12.32	3.76	0.64
900	13.15	4.01	0.60
1000	13.85	4.22	0.57
1500	17.35	5.29	0.45
1800	19.20	5.85	0.41
2000	20.30	6.19	0.39
2200	21.40	6.52	0.37
2400	22.50	6.86	0.36
2500	23.00	7.01	0.35
3000	25.20	7.68	

Standard Conditions :

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

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

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

Maximum attenuation value shall be 105% of the nominal attenuation value

Printing: SUPER FLEXIBLE RF CABLE HRCAYZ-50-7(3/8") XXXX/XX/XX ***** **m