

DATA SHEET



RF Cable

HCAHY-50-9(1/2" S)



Dimension

Inner conductor	CCA	3.60±0.05mm
Dielectric	Foamed PE	9.10±0.3mm
Outer conductor	Helical Corrugated Copper	12.00±0.15mm
Outer Jacket	PE (Black)	13.55±0.20mm

Mechanical Performance

Min. Bending Radius(single)	17mm
Min. Bending Radius(multiple)	35mm
Tensile strength	800N
Weight	165kg/km

Environmental Performance

Operating temperature	PE	-55°C ~ +85°C
Installation temperature	PE	-40°C ~ +60°C
Storage Temperature	PE	-70°C ~ +85°C

Electrical Performance

Impedance	50±1Ω
Cutoff Frequency	10.2GHz
Velocity of Propagation	81%
Peak Power	16kW
Insulation resistance	>10000MΩ·km
DC breakdown voltage	2.5KV
Capacitance	83pF/m
Inductance	0.19μH/m
DC resistance inner conductor	2.9Ω/km
DC resistance outer conductor	4.5Ω/km
Intermodulation (IM3, 2 x 20 W) @ 910MHz and 1800MHz (static & dynamic)	≤ -160 dBc

VSWR

694-960MHz	≤1.10
1429-1501MHz	≤1.10
1710-2170MHz	≤1.10
2400-2690MHz	≤1.13
3300-3800MHz	≤1.15
0-3800MHz	≤1.20
3800-6000MHz	≤1.28

Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kw)
450	7.48	1.380
800	10.30	1.010
900	11.09	0.910
1000	11.49	0.880
1800	16.44	0.634
2000	17.43	0.597
2200	18.42	0.564
2400	18.71	0.552
3000	22.28	0.421
4000	26.44	0.394
6000	34.06	0.306
8000	40.99	0.254

Standard Conditions:

Typical attenuation at sea level with 20°C, maximum value shall be 105% of the nominal attenuation value / Power rate at 40°C

Standard Package:

carton or drum

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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