



## HCAAY-50-6

1/4 "FLEXIBLE RF CABLE

Applications : Jumper, BTS intercabinet connection, GPS line.

advantage : Excellent bending properties , Low loss , Better intermodulation performance.etc.

### 结构材料

Inner Conductor	Copper-Clad Aluminum Wire	2.60mm
Dielectric	Physical Foam Polyethylene	6.45mm
Outer Conductor	Corrugated Copper Tube	7.70mm
Jacket	Black PE	9.00mm

### 电气性能

Capacitance	78.0 pF/m
Impedance	50±1 Ω
Insulation Resistance	5000 MΩ.km
Sheath spark voltage	3000V
Velocity	86%
RF Peak Voltage	0.83kV
Peak Power Rating	11kW
Cut-off Frequency	18.60 GHz
Shielding Effectiveness > 10MHz	> 120 dB
VSWR	
0.8~1.0GHz	26.4 dB ( 1.10)
1.7~2.2GHz	24.3dB ( 1.13 )
2.2~2.7GHz	23.1dB ( 1.15 )
3.3~3.6GHz	20.8dB ( 1.20 )
4.8~5.0GHz	20.8dB ( 1.20 )

### 机械性能

Single Bending	38mm
Repeated Bending	76mm

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Minimum Number of Bends	15
Tensile Strength	530N
Compressive strength	14N/mm

## 环境性能

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Storage Temperature	-55°C~+85°C
Installation Temperature	-40°C~+60°C
Operation Temperature	-55°C~+85°C
Ultraviolet resistance	IEC 60068-2-5; UL1581;

## 衰减

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Frequency	Attenuation	Average Power
MHz	dB/100m	kW
100	4.05	1.87
150	5.00	1.51
200	5.80	1.30
280	7.05	1.07
450	8.90	0.85
800	12.10	0.62
900	12.80	0.58
1000	13.60	0.55
1500	17.00	0.44
1800	18.90	0.40
2000	20.00	0.37
2200	21.10	0.35
2400	22.30	0.34
2500	23.00	0.34
3000	25.20	0.30
3300	26.33	0.29
3600	27.63	0.27
4000	29.31	0.25
4500	31.31	0.24
4800	32.47	0.23
5000	33.90	0.22

\*Typical value , Maximum 5%

## 标准要求

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ISO 9001:2015	PASS
RoSH 2011/65/EU	PASS