

1/4"

1/4" PE | HCAAY-50-6, Black PE Jacket

1/4" LSZH | HCAAYZ-50-6, Black LSZH Jacket



Material Specification

Inner Conductor	Copper Clad Aluminum	2.60±0.05 mm
Dielectric	Foam Polyethylene	6.50±0.15 mm
Outer Conductor	Annular Corrugated Copper Tube	7.70±0.20 mm
Jacket	LSZH	8.90±0.25 mm
	PE	
Jacket Thickness ,min	—	0.40 mm

Electrical Specification

Characteristic Impedance	50 Ω	
Velocity of Propagation	86%	
Capacitance	77.5 pF/m	
Insulation Resistance,min	5000 MΩ•km	
Jacket Spark Test Voltage	3 KV	
RF Peak Voltage	0.83 KV	
Peak Power Rating	11.0 KW	
Cut-off Frequency	18.6 GHz	
PIM (2*43dBm),Typ	-150 dBc (900MHz&1800MHz)	
VSWR max	700-960 MHz	1.15
	1700-2200 MHz	1.15
	2200-2700 MHz	1.18
	3300-3800 MHz	1.20

Mechanical Specifications

Single Bending Radius	45 mm
Repeated Bending Radius	80 mm
Bending Numbers	15

Environmental Specifications

	PE	LSZH
Storage Temperature	-55°C~+85°C	-30°C~+80°C
Installation Temperature	-40°C~+60°C	-20°C~+60°C
Operating Temperature	-55°C~+85°C	-30°C~+80°C
RoHS 2011/65/EU	Compliant	

Attenuation @ 20°C And Average Power Rating @ 40°C

Frequency, MHz	dB/100m	kw	Frequency, MHz	dB/100m	kw
100	4.11	1.87	1800	18.95	0.40
150	5.06	1.51	2000	20.06	0.37
200	5.86	1.30	2200	21.16	0.35
280	7.11	1.07	2400	22.35	0.34
450	8.96	0.85	2500	23.06	0.33
800	12.16	0.62	3000	25.26	0.30
900	12.88	0.58	3300	26.39	0.29
1000	13.66	0.55	3600	27.69	0.27
1500	17.06	0.44			

The attenuation is typical value, Maximum value shall be 108% of the typical value.