

1/2" S

1/2" S PE | HCAHY-50-9, Black PE Jacket

1/2" S LSZH | HCAHYZ-50-9, Black LSZH Jacket



Material Specification

Inner Conductor	Copper Clad Aluminum	3.60±0.05 mm
Dielectric	Foam Polyethylene	9.50±0.30 mm
Outer Conductor	Helical Corrugated Copper Tube	11.90±0.20 mm
Jacket	LSZH	13.40±0.25 mm
	PE	
Jacket Thickness ,min	—	0.50 mm

Electrical Specification

Characteristic Impedance	50 Ω	
Velocity of Propagation	81%	
Capacitance	82.0 pF/m	
Insulation Resistance,min	1000 MΩ•km	
Jacket Spark Test Voltage	5 KV	
RF Peak Voltage	1.13 KV	
Peak Power Rating	22.5 KW	
Cut-off Frequency	12.50 GHz	
PIM (2*43dBm),Typ	-160 dBc (900MHz&1800MHz)	
VSWR max	700-960 MHz	1.12
	1700-2200 MHz	1.12
	2200-2700 MHz	1.15
	3300-3800 MHz	1.15

Mechanical Specifications

Single Bending Radius	40 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	3.23	3.03	1800	15.03	0.63
150	3.99	2.39	2000	15.92	0.59
200	4.62	2.11	2200	16.79	0.57
280	5.58	1.69	2400	17.66	0.53
450	7.08	1.37	2500	18.05	0.52
800	9.63	1.00	3000	20.10	0.48
900	10.25	0.94	3300	21.20	0.46
1000	10.87	0.88	3600	22.28	0.43
1500	13.50	0.70	3800	23.68	0.41

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