1/4"S

1/4"S PE | HCAHY-50-5, Black PE Jacket
1/4"S LSZH I HCAHYZ-50-5, Black LSZH Jacket

Material Specification

Inner Conductor	Copper Clad Aluminum	1.90±0.03 mm
Dielectric	Foam Polyethylene	4.85±0.15 mm
Outer Conductor	Helical Corrugated Copper Tube	6.40±0.15 mm
Jacket	LSZH	7.50±0.25 mm
	PE	
Jacket Thickness ,min	——	0.40 mm

Electrical Specification

Characteristic Impedance	50 Ω	
Velocity of Propagation	81%	
Capacitance	80.0 pF/m	
Insulation Resistance,min	5000 MΩ•km	
Jacket Spark Test Voltage	3 KV	
RF Peak Voltage	0.8 KV	
Peak Power Rating	6.40 KW	
Cut-off Frequency	20.4 GHz	
PIM (2*43dBm),Typ	-160 dBc （900MHz&1800MHz）	
VSWR max	700-960 MHz	1.12
	1700-2200 MHz	1.13
	2200-2700 MHz	1.15
	3300-3800 MHz	1.18

Mechanical Specifications

Single Bending Radius	12.0 mm
Repeated Bending Radius	25.0 mm
Bending Numbers	15

Environmental Specifications

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

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

Frequency, MHz	dB/100m	kw	Frequency, MHz	dB/100m	kw
100	5.68	1.23	2200	28.55	0.25
150	7.31	0.95	2400	30.05	0.24
200	8.06	0.86	2500	30.65	0.23
280	10.26	0.67	3000	33.55	0.21
450	12.26	0.57	3300	35.07	0.19
800	16.75	0.42	3600	36.79	0.18
900	17.55	0.39	3800	38.98	0.16
1000	18.65	0.37			
1500	23.45	0.30			
1800	25.75	0.27			
2000	26.95	0.26			

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