

HPL 50-7/8 LA – High Fire resistant LSOH Jacket M5323Z

Description

Inner Conductor:	Copper tube	9.25 mm
Dielectric:	Foam Polyethylene	22.4 mm
Outer Conductor:	Corrugated copper	24.7 mm
Jacket:	Black High Fire resistant Low smoke Zero Halogen Compound	27.75 mm
Ink Marking:	ACOME HYPERCELL COAX LSOH HFR HPL 50-7/8 LA M5323 LOT X lot N ° (+Metric length)	



Electrical Characteristics

Impedance:	50 ± 1Ω	
Return Loss:	380 ~ 500 MHz	≤ -26.5 dB
	694 ~ 960 MHz	≤ -26.5 dB
	1700 ~ 2200 MHz	≤ -24 dB
	2500 ~ 2700 MHz	≤ -23.5 dB
	3400 ~ 3800 MHz	≤ -22 dB
Capacitance:	73.5 pF/m	
Passive Intermodulation:	≤ -160 dBc	
Velocity:	90%	
Dielectric Constant:	1.23	
Screening Effectiveness:	> 120 dB	
Operating Frequency:	≤ 5 GHz	
Peak Power Rating:	95 kW	
Operating Voltage:	3 kV RMS	
Insulation Resistance:	> 10000 MΩ.km	
DC Resistance:	Inner conductor	≤ 1.55 Ω/km
	Outer conductor	≤ 1.40 Ω/km

Frequency (MHz)	Attenuation (dB/100m) @ 20°C Typical	Power kW @ 40°C-Ambient Temperature Inner conductor: 100°C
30	0.59	16.29
80	0.98	9.85
150	1.37	7.10
450	2.45	3.97
824	3.42	2.86
900	3.56	2.72
960	3.73	2.63
1000	3.78	2.57
1500	4.74	2.04
1700	5.17	1.91
1800	5.25	1.84
1900	5.41	1.79
2000	5.58	1.70
2200	5.89	1.65
2300	6.04	1.60
2400	6.19	1.56
2500	6.34	1.53
3000	7.06	1.37
3300	7.46	1.29
3400	7.60	1.26
3500	7.73	1.25
3600	7.86	1.22
3800	8.12	1.18
5000	9.69	0.90

Mechanical Characteristics

Bending Radius:	Operating	250 mm - Min
	Installation	120 mm - Min
Tensile Strength:	1450 N - Max	
Weight:	526 kg/km	
Packaging:	500 m	

Environmental Characteristics

Temperature Range:	Operating	-40°C / +85°C
	Installation	-10°C / +60°C
	Storage	-40°C / +85°C
Fire Resistance:	NFC 32070 2.2/RATP K26	
Smoke Toxicity:	IEC 60754-2 / NFC20-454	
Smoke Density:	IEC 61034	
Test Methods:	IEC 60096-0-1, 61196-1, 60966-1	