

M5322Z

HPL 50-1/2 F – High Fire Retardant LSOH Jacket

GENERAL CHARACTERISTICS

Inner Conductor:	Copper – clad Aluminium	4.8 mm
Dielectric:	Foam Polyethylene	11.9 mm
Outer Conductor:	Corrugated copper	13.7 mm
Jacket:	Black High Fire resistant Low smoke Zero Halogen Compound	16.0 mm
Ink Marking:	ACOME HYPERCELL COAX LSOH HFR HPL 50-1/2F FLEXIBLE M5322 LOT X lot N°□+Metric length□	

MECHANICAL

Bending radius:	Operating	125 mm – Min
	Installation	70 mm – Min
Tensile Strength:		1100 N – Max
Weight:		264 kg/km
Packaging:		500 m

ENVIRONMENTAL

Temperature range:	Operating	-40°C / +85°C
	Installation	-20°C / +60°C
	Storage	-70°C / +85°C
Fire resistance:	NFC32070 2.2/RATP K26	
CPR:	B2ca-s1a,d1,a1 , EN50575	
Smoke toxicity:	IEC 60754-2 / NFC20-454	
Smoke density:	IEC 61034	
Test methods:	IEC 60096-0-1, 61196-1, 60966-1	

ELECTRICAL

Impedance : 50 ± 1 Ω
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: 76 pF/m
Passive Intermodulation : ≤-160 dBc
Velocity: 88%
Dielectric constant: 1.32
Screening effectiveness: > 120 dB
Operating frequency: ≤ 8 GHz
Peak power rating: 40 kW
Operating voltage: 1.6 kV RMS
Insulation Resistance: > 10000 MΩ.km
DC resistance:

- Inner conductor: ≤ 1.60 Ω/km
- Outer conductor: ≤ 2.08 Ω/km

Frequency (MHz)	Attenuation (dB/100m) @ 20°C Typical	Power kW @ 40°C- Ambient Temperature Inner conductor: 100°C
30	1.18	8.35
80	1.95	5.06
150	2.69	3.67
450	4.76	2.07
824	6.56	1.50
900	6.88	1.43
960	7.12	1.39
1000	7.28	1.35
1500	9.07	1.09
1700	9.71	1.02
1800	10.02	0.98
1900	10.32	0.95
2000	10.62	0.93
2200	11.19	0.88
2300	11.47	0.85
2400	11.75	0.84
2500	12.02	0.82
3000	13.34	0.74
3300	14.06	0.70
3400	14.28	0.69
3500	14.52	0.68
3600	14.75	0.64
3800	15.21	0.62
4500	16.80	0.55
5800	20.15	0.40
6000	20.25	0.36
8000	23.90	0.28