



DATA SHEET

HPL 50-1/4F

AST
M2932

Fire resistant Low smoke Zero Halogen Jacket

Page: 1/1

- 1 - Inner Conductor** : Copper-clad Aluminium
Diameter : 2.50 ± 0.05 mm
- 2 - Dielectric** : Foam Polyethylene
Diameter : 6.40 ± 0.20 mm
Eccentricity : < 2%
- 3 - Outer Conductor** : Annularly corrugated copper tube
Diameter over outer conductor : 7.60 ± 0.20 mm
Diameter outside bottom : 6.50 ± 0.20 mm
Section length : 4.0 ± 0.05 mm
- 4 - Jacket** : Low smoke Zero Halogen Compound
Diameter : 9.50 ± 0.30 mm
- 5 - Ink marking** : Metric length



ACOME HYPERCELL COAX LSOH HPL 50-1/4 FLEXIBLE M2932 LOT X lot N°

Mechanical Characteristics

Packaging : 500 meters

Weight approx : 113kg/km

Fire resistance : IEC332-1/332-3A

Smoke toxicity : IEC754-2/NFC20-454

Smoke density : IEC1034

Installation Bending radius : 40 mm - Min.

Operating Bending radius : 100 mm - Min.

Tensile Strength : 560 N - Max.

Installation temperature range : $-20^{\circ}\text{C} / + 60^{\circ}\text{C}$

Operating temperature range : $-40^{\circ}\text{C} / + 85^{\circ}\text{C}$

Electrical Characteristics

Impedance : $50 \pm 1\Omega$

Capacitance : 78.5 ± 1.5 pF/m

Intermodulation IM3 (GSM-UMTS) maxi : -158 dBc (-163 dBc typical)

Velocity : 85%, Dielectric constant : 1.38, typical values

Screening effectiveness : > 120 dB

Operating frequency : 15 GHz

Peak power rating : 7.5 kW

Operating voltage : 0.87 kV RMS

Test voltage : 1.8 kV RMS

Insulation Resistance : > 10000 M Ω .km

DC resistance : Inner conductor : $\leq 6.05\Omega / \text{km}$

: Outer conductor : $\leq 4.45\Omega / \text{km}$

Test methods are meeting the requirements of :

IEC60096-0-1, IEC61196-1, IEC60966-1

Frequency MHz	Attenuation db/100m @ 20°C Typical	Power kW @ 40°C-Ambient Temp Inner conductor: 100°C
30	2.25	4.38
80	3.71	2.66
150	5.14	1.92
450	9.14	1.08
824	12.64	0.78
900	13.26	0.74
960	13.74	0.72
1000	14.04	0.70
1500	17.55	0.56
1700	18.81	0.52
1800	19.42	0.51
1900	20.02	0.49

Frequency MHz	Attenuation db/100m @ 20°C Typical	Power kW @ 40°C-Ambient Temp Inner conductor : 100°C
2000	20.60	0.4879
2200	21.75	0.45
2300	22.30	0.44
2400	22.83	0.43
2500	23.36	0.42
3000	25.92	0.378
3300	27.38	0.358
3400	27.86	0.355
3500	28.33	0.35
3600	28.80	0.34
3800	29.71	0.32

This technical specification is for reference only and is subject to change without notice

Edition :2009-07-10