



DATA SHEET

HPL 50-7/8 LA

Black Polyethylene Jacket

AST
M5407Z

Page: 1/1

- 1 - Inner Conductor** : Copper tube
Outer Diameter : 9.45 ± 0.10 mm
Inner Diameter : 8.45 ± 0.10 mm
- 2 - Dielectric** : Foam Polyethylene
Diameter : 22.4 ± 0.20 mm
Eccentricity : < 2%
- 3 - Outer Conductor** : Annularly corrugated copper tube
Diameter over outer conductor : 25.40 ± 0.20 mm
Diameter outside bottom : 22.6 ± 0.20 mm
Section length : 7.0 ± 0.15 mm
- 4 - Jacket** : Black Polyethylene
Diameter : 27.75 ± 0.25 mm
- 5 - Ink marking** : Metric length



ACOME HYPERCELL COAX HPL 50-7/8 LA M5407 LOT X lot N°+Meters

Mechanical Characteristics

Packaging : EBE 500 meters
Halogen content : IEC 754-1
Installation temperature range : $-25^{\circ}\text{C} / + 60^{\circ}\text{C}$
Operating temperature range : $-40^{\circ}\text{C} / + 85^{\circ}\text{C}$

Weight approx. : 500 kg/km
Installation Bending radius : 120 mm - Min.
Operating Bending radius : 250 mm - Min.
Tensile Strength : 1450 N - Max.

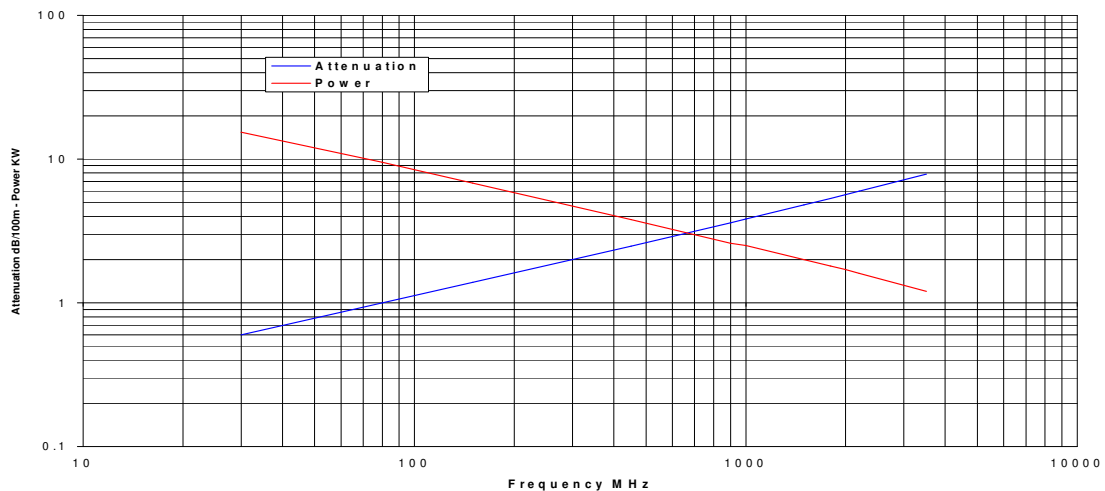
Electrical Characteristics

Impedance : $50 \pm 1 \Omega$
Capacitance : 74.0 ± 1.5 pF/m
Return Loss : **mini 26.5 dB** from 400 to 500 MHz
mini 26.5 dB from 800 to 1000 MHz
mini 24 dB from 1700 to 2200 MHz
mini 23.5 dB from 2500 to 2700 MHz
Intermodulation IM3 (GSM-UMTS) maxi : -158 dBc (-163 dBc typical)
Velocity : 89.5%, Dielectric constant : 1.32, typical values

Screening effectiveness : > 120 dB
Operating frequency : 5 GHz
Peak power rating : 95 kW
Operating voltage : 3 kV RMS
Test voltage : 6.3 kV RMS
Insulation Resistance : > 10000 M Ω .km
DC resistance : Inner conductor : $\leq 1.35 \Omega/\text{km}$
: Outer conductor : $\leq 1.12 \Omega/\text{km}$

Test methods are meeting the requirements of : IEC 68 - 96 - 966

Frequency MHz	30	80	150	450	900	1000	1500	1800	2000	2200	3500
Attenuation dB/100 m Max values	0.60	1.00	1.39	2.48	3.61	3.84	4.82	5.34	5.68	5.99	7.87
Power kW - 40 °C ambient temperature - Inner conductor : 100°C	15.40	9.50	6.80	3.80	2.60	2.50	2.00	1.80	1.70	1.60	1.20



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