



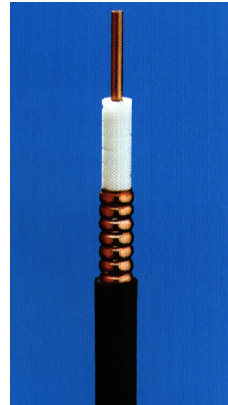
DATA SHEET

HPL 50-1/2F

Black Polyethylene Jacket

AST
M1473Z
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- 1 - Inner Conductor** : Copper-clad Aluminium
Diameter : 4.80 ± 0.05 mm
- 2 - Dielectric** : Foam Polyethylene
Diameter : 11.90 ± 0.20 mm
Eccentricity : < 2%
- 3 - Outer conductor** : Annularly corrugated copper tube
Diameter over outer conductor : 13.70 ± 0.20 mm
Diameter outside bottom : 12.10 ± 0.20 mm
Section length : 5.0 ± 0.15 mm
- 4 - Jacket** : Black Polyethylene
Diameter : 16.0 ± 0.30 mm
- 5 - Ink marking** : Metric length



ACOME HYPERCELL COAX HPL50-1/2 FLEXIBLE M1473 LOT lot N°

Mechanical Characteristics

Packaging : BBE 500 meters
Weight approx. : 250 kg/km
Installation temperature range : $-25^{\circ}\text{C} / +60^{\circ}\text{C}$
Operating temperature range : $-40^{\circ}\text{C} / +85^{\circ}\text{C}$
Halogen content : IEC 754-1

Operating Bending Radius : 70 mm - Min.
Installation Bending Radius : 125 mm - Min.
Tensile Strength : 1100 N - Max.

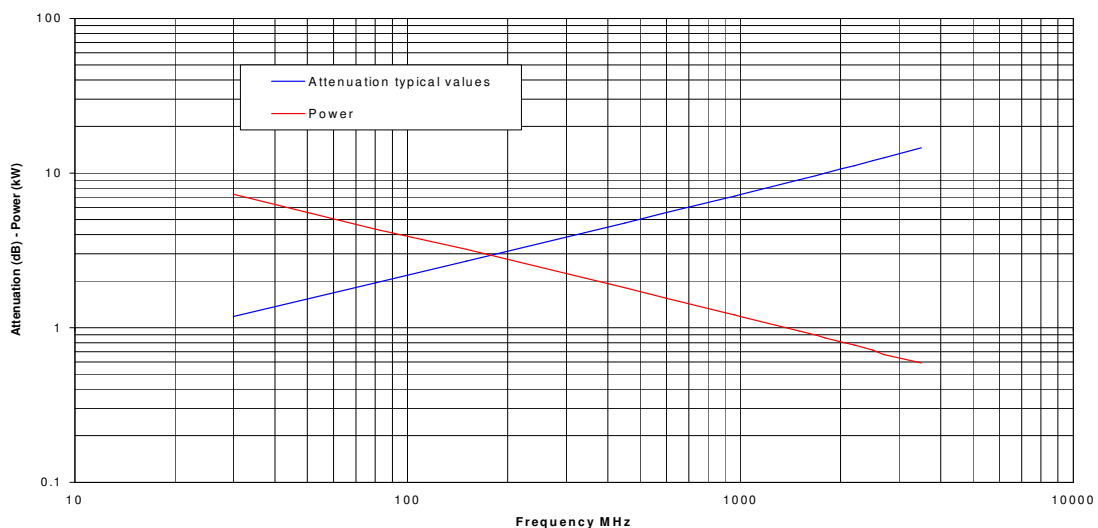
Electrical Characteristics

Impedance : $50 \pm 1 \Omega$
Capacitance : 76 ± 1.5 pF/m
Return Loss : **maxi -26.5 dB** from 400 to 500 MHz
maxi -26.5 dB from 800 to 1000 MHz
maxi -24 dB from 1700 to 2200 MHz
maxi -23.5 dB from 2500 to 2700 MHz
Intermodulation IM3 (GSM-UMTS) maxi : -158 dBc (-163 dBc typical)
Velocity : 88% - Dielectric constant : 1.32, typical values

Screening effectiveness > 120 dB
Operating frequency : 8 Ghz
Peak power rating : 40 kW
Operating voltage : 1.6 kV RMS
Test voltage : 3.3 kV RMS
Insulation Resistance : > 10000 M Ω .km
DC Resistance : inner conductor : $\leq 1.60 \Omega/\text{km}$
: outer conductor : $\leq 1.95 \Omega/\text{km}$

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 typical values	1.18	1.95	2.69	4.75	6.85	7.25	9.03	10.00	10.62	11.12	14.52
Power kW - 40°C ambient temperature Inner conductor : 100 °C	7.29	4.34	3.21	1.81	1.25	1.18	0.95	0.86	0.81	0.77	0.59



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