



**DATA SHEET**  
**HPL 50-3/8SF**  
 Black Polyethylene Jacket

**AST**  
**M2933**  
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- 1 - Inner Conductor** : Copper -clad Aluminium  
Diameter :2.80 ± 0.05 mm
- 2 - Dielectric** : Foam Polyethylene  
Diameter : 6.90 ± 0.20 mm  
Eccentricity : < 2%
- 3 - Outer Conductor** : Helically corrugated copper tube  
Diameter over outer conductor : 9.60 ± 0.20 mm  
Diameter inside bottom : 6.60 ± 0.20 mm  
Section length : 2.75 ± 0.05 mm
- 4 - Jacket** : Black Polyethylene  
Diameter : 10.80 ± 0.20 mm
- 5 - Ink marking** : Metric length



**ACOME HYPERCELL COAX HPL 50-3/8SF SUPER FLEXIBLE M2933 LOT X lot N°**

**Mechanical Characteristics**

Packaging : 500 meters  
 Halogen content : IEC754-1  
 Installation temperature range : -25°C / + 60°C  
 Operating temperature range : -40°C / + 85°C  
 Weight approx : 121.9kg/km

Installation Bending radius : 25 mm - Min.  
 Operating Bending radius : 45 mm - Min.  
 Tensile Strength : 500 N-Max  
 Bending moment at 90° :2.8 Nm

**Electrical Characteristics**

Impedance : 50 ± 1Ω  
 Capacitance : 80 ± 1.5 pF/m  
 Intermodulation IM3 (GSM-UMTS) maxi : -158 dBc (-163 dBc typical)  
 Velocity : 83%, Dielectric constant : 1.45, typical values  
 Screening effectiveness : > 120 dB

Operating frequency : 12 GHz  
 Peak power rating : 8.6 kW  
 Operating voltage : 0.9 kV RMS  
 Test voltage : 2.0 kV RMS  
 Insulation Resistance : > 10000 MΩ.km  
 DC resistance : Inner conductor : ≤ 4.76Ω /km  
 : Outer conductor : ≤ 4.95Ω /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	2.17	4.55
80	3.57	2.76
150	4.93	2.00
450	8.73	1.13
824	12.03	0.82
900	12.61	0.78
960	13.05	0.76
1000	13.34	0.74
1500	16.61	0.59
1700	17.79	0.55
1800	18.35	0.54
1900	18.91	0.52

Frequency MHz	Attenuation db/100m @ 20°C Typical	Power kW @ 40°C-Ambient Temp Inner conductor: 100°C
2000	19.45	0.51
2200	20.50	0.48
2300	21.03	0.47
2400	21.52	0.46
2500	22.01	0.45
3000	24.38	0.4
3300	25.71	0.379
3400	26.15	0.376
3500	26.58	0.37
3600	27.02	0.36
3800	27.86	0.34

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

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