



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

**AST**  
**M5437**

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- 1 -Inner conductor** : Copper clad Aluminium  
Diameter : 2.76 ± 0.03 mm
  - 2 -Dielectric** : Foam Polyethylene  
Diameter : 7.30 ± 0.20 mm
  - 3 -Outer conductor** : Aluminium/polyester/Aluminium tape  
Tin-copper braid,wire diameter :0.15mm  
Diameter over braid: 8.0mm
  - 4 -Jacket** : Black Polyethylene  
Diameter : 10.10 ± 0.30 mm
  - 5 -Ink Marking** : Metric Length
- ACOME HYPERCELL COAX HPL 50-3/8XF M5437 LOT X lot N° +Meter**



### Mechanical Characteristics

Packing : 500 m  
 Weight approx : 87 kg/km  
 Halogen content: IEC 754-1  
 Installation temperature range: -25 °C /+ 60 °C  
 Operating temperature range: -40 °C / +85 °C

Installation bending radius : 25 mm -Min  
 Operating bending radius : 50 mm -Min  
 Installation/Operating Tensile strength : 700N/500 N

### Electrical Characteristics

Impedance : 50 ± 1.5Ω  
 Capacitance : 78.0 pF/m,typical values  
 Velocity : 85% - dielectric constant : 1.38, typical value  
 Screen effectiveness : > 90 dB  
 Operating frequency : 12 Ghz

Peak power : 8.4 kW  
 Operating voltage : 0.9 kV RMS  
 Test voltage : 1.8 kV RMS  
 Insulation resistance : > 10000 MΩ.km  
 DC resistance : Inner conductor : ≤ 4.75 Ω/km  
 Outer conductor : ≤ 8.60Ω/km

**Test methods are meeting the requirement of**  
**IEC60096-0-1,IEC61196-1,IEC60966-1**

Frequency MHz	30	100	300	450	900	1000	1500	1800	2000	3000
Attenuation dB/100 m 20°C Typical	2.17	4.05	7.60	8.86	12.72	13.46	16.76	18.56	19.67	24.72
Power kW-ambient temperature : 40°C Inner conductor: 100°C	3.49	1.89	1.03	0.86	0.60	0.56	0.45	0.41	0.39	0.32

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

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