

- 1 – Inner Conductor** : Copper tube
Outer Diameter : 9.45 ± 0.10 mm
 - 2 - Dielectric** : Foam Polyethylene
Diameter : 22.4 ± 0.20 mm
Eccentricity : < 2 %
 - 3 - Outer Conductor** : Annularly corrugated aluminium tube
Diameter over outer conductor : 25.40 ± 0.20 mm
Diameter outside bottom : 22.90 ± 0.20 mm
Section length : 7.0 ± 0.15 mm
 - 4 - Jacket** : Polyethylene
Diameter : 27.75 ± 0.25 mm
 - 5 - Ink Marking** : Metric length
- ACOME HYPERCELL COAX HPL 50-7/8 ALU M5430 LOT X lot N° +Meter**



Mechanical Characteristics

Packaging standard : 500 meter
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 : 370 kg/km

Flat plate crush resistance : 1.1kg/mm
Installation Bending radius Min : 120 mm
Operating Bending radius Min : 250 mm
Tensile Strength : 1400 N

Electrical Characteristics

Impedance : $50 \pm 1 \Omega$
Capacitance : 76.5 ± 1.5 pF/m
Velocity : 89%
Dielectric constant : 1.32, nominal
Screening effectiveness : > 120 dB

Screening effectiveness : > 120 dB
Operating frequency : 5 GHz
Peak power rate : 90 kW
Operating voltage : 3 kV RMS
Test voltage : 6 kV RMS
Insulation Resistance : > 10000 M Ω .km
DC resistance : Inner conductor $\leq 1.35 \Omega/\text{km}$
Outer conductor $\leq 1.6 \Omega/\text{km}$

Test methods are meeting the requirements of:
IEC 60096-0-1, IEC61196-1, IEC60966-1

Frequency MHz	Attenuation db/100m @ 20°C Typical	Power kW @ 40°C-Ambient Temp Inner conductor: 100°C
30	0.65	13.55
80	1.08	8.17
150	1.50	5.89
450	2.67	3.24
824	3.70	2.30
900	3.86	2.20
960	4.03	2.10
1000	4.09	2.07
1500	5.12	1.62
1700	5.50	1.50
1800	5.66	1.46
1900	5.85	1.40

Frequency MHz	Attenuation db/100m @ 20°C Typical	Power kW @ 40°C-Ambient Temp Inner conductor: 100°C
2000	6.01	1.36
2200	6.34	1.29
2300	6.53	1.25
2400	6.69	1.22
2700	7.13	1.16
3000	7.56	1.06

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

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