TECHNICAL SPECIFICATION

HPL 50-7/8 Alu

Fire Resistant Low Smoke Zero Halogen Jacket

AST M5436

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 : Low Smoke Zero Halogen Compound
Diameter : 27.75 ± 0.25 mm

5 - Ink Marking : Metric length

ACOME HYPERCELL COAX LSOH HPL 50-7/8 ALU M5436 LOT X lot N° **+**Meter

Mechanical Characteristics

Packaging standard : 500 meter
Weight approx : 427 kg/km
Fire resistant: IEC 332-1/IEC 332-3A
Smoke toxicity:IEC754-2/NFC20-454
Smoke density:IEC1034

Installation Bending radius Min : 120 mm
Operating Bending radius Min : 250 mm
Tensile Strength : 1400 N
Installation temperature range : -20°C / + 60°C
Operating temperature range : -40°C / +85°C
Falt plate crush resistance :1.1kg/mm

Electrical Characteristics

Impedance : 50 ± 1Ω
Capacitance : 76.5 ± 1.5 pF/m
Velocity : 89%
Dielectric constant : 1.32, nominal
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 MΩ.km
DC resistance : Inner conductor ≤ 1.35 Ω/km
Outer conductor ≤ 1.6Ω/km

Test methods are meeting the requirments 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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