



DATA SHEET

HPL 50-1/4XF

Fire resistant Low smoke Zero Halogen Jacket

AST
M5361

Page: 1/1

- 1 - Inner Conductor** : Copper -clad Aluminium
Diameter : 1.75 ± 0.05 mm
- 2 - Dielectric** : Physically Foam Polyethylene
Diameter : 4.80 ± 0.10 mm
- 3 - Outer Conductor** : Alu/polyester/Alu tape
Tinned copper braid,wire diameter :0.15mm
Diameter over braid: 5.60 mm
- 4 - Jacket** :Black Fire Resistance Low smoke Zero Halogen Compound
Diameter : 6.85 ± 0.15 mm
- 5 - Ink marking** : Metric length



ACOME HYPERCELL COAX LSOH HPL 50-1/4XF M5361 LOT X lot N°

Mechanical Characteristics

Packaging : 500 meters

Fire resistance :IEC332-1/332-3A

Smoke toxicity :IEC754-2/NFC20-454

Smoke density :IEC1034

Weight approx : 57kg/km

Installation Bending radius : 20 mm - Min.

Operating Bending radius : 45 mm - Min.

Installation temperature range : -20°C / + 60°C

Operating temperature range : -40°C / + 85°C

Installation/OperatingTensile Strength : 600/400N - Max.

Electrical Characteristics

Impedance : 50 ± 1.5

Capacitance : 79 pF/m,Typical value

Velocity : 84%, Dielectric constant : 1.42, typical values

Screening effectiveness : > 88 dB

Operating frequency : 15 GHz

Peak power rating : 3.6kW

Operating voltage : 0.6 kV RMS

Test voltage : 1.2 kV RMS

Insulation Resistance : > 10000 M Ω .km

DC resistance : Inner conductor : $\leq 11 \Omega$ /km

: Outer conductor : $\leq 10.50 \Omega$ /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
10	2.74	3.00
30	4.32	1.84
100	6.94	1.09
300	11.47	0.67
450	14.29	0.56
900	20.90	0.41
1000	21.83	0.38
1500	27.13	0.31
1800	29.60	0.28
2000	31.59	0.26
3000	39.40	0.22
3500	43.00	0.19

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

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