



DATA SHEET

HPL 50-1/4XF HFR

High Fire resistant Low smoke Zero Halogen Jacket

AST
M5332

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- 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– overlapping > 40%
Diameter over braid: 5.60 mm
- 4 - Jacket** : Black High Fire Resistance Low smoke Zero Halogen Compound
Diameter : 6.85 ± 0.15 mm
- 5 - Ink marking** : Metric length



ACOME HYPERCELL COAX LSOH HFR HPL 50-1/4XF M5332 LOT lot N°

Mechanical & Environmental Characteristics

Packaging : 1000 meters
 Fire resistance :IEC332-1/332-3A/UL1666/NFC32070.2.2/RATP K26
 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

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
 Max Operating voltage : 0.6 kV RMS
 Test voltage : 1.2 kV RMS
 Insulation Resistance : > 10000 M Ω .km
 DC resistance : Inner conductor : ≤ 11 Ω /km
 : Outer conductor : ≤ 10.50 Ω /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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