



DATA SHEET

HPL 50-1/2F HFR

AST
M5322

High Fire resistant Low smoke Zero Halogen Jacket

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- 1 - Inner Conductor** : Copper -clad Aluminium
Diameter : 4.80 ± 0.05 mm
- 2 - Dielectric** : Foam Polyethylene
Diameter : 11.90 ± 0.20 mm
Eccentricity : < 2%
- 3 - Outer Conductor** : Annularly corrugated copper tube
Diameter over outer conductor : 13.70 ± 0.20 mm
Diameter outside bottom : 12.10 ± 0.20 mm
Section length : 5.0 ± 0.15 mm
- 4 - Jacket** : Black High Fire resistant Low smoke Zero Halogen Compound
Diameter : 16.0 ± 0.30 mm
- 5 - Ink marking** : Metric length



ACOME HYPERCELL COAX LSOH HFR HPL 50-1/2 FLEXIBLE M5322 LOT lot N°

Mechanical & Environmental Characteristics

Packaging : 500 meters
Fire resistance : IEC332-1/332-3A/UL1666/NFC32070.2.2/RATP K26
Smoke toxicity : IEC754-2/NFC20-454
Smoke density : IEC1034
Weight approx : 248kg/km

Installation Bending radius : 70 mm - Min.
Operating Bending radius : 125 mm - Min.
Installation temperature range : -20°C / + 60°C
Operating temperature range : -40°C / + 85°C
Tensile Strength : 1100 N - Max.

Electrical Characteristics

Impedance : 50 ± 1Ω
Capacitance : 76 ± 1.5 pF/m
Intermodulation IM3 (GSM-UMTS) maxi : -158 dBc (-163 dBc typical)
Velocity : 88%, Dielectric constant : 1.32, typical values
Screening effectiveness : > 120 dB

Max Operating frequency : 8 GHz
Peak power rating : 40 kW
Operating voltage : 1.6 kV RMS
Test voltage : 3.3 kV RMS
Insulation Resistance : > 10000 MΩ.km
DC resistance : Inner conductor : ≤ 1.60Ω /km
: Outer conductor : ≤ 2.16Ω /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
30	1.18	8.35
80	1.95	5.06
150	2.69	3.67
450	4.76	2.07
824	6.56	1.50
900	6.88	1.43
960	7.12	1.39
1000	7.28	1.35
1500	9.07	1.09
1700	9.71	1.02
1800	10.02	0.98
1900	10.32	0.95

Frequency MHz	Attenuation db/100m @ 20°C Typical	Power kW @ 40°C-Ambient Temp Inner conductor : 100°C
2000	10.62	0.93
2200	11.19	0.88
2300	11.47	0.85
2400	11.75	0.84
2500	12.02	0.82
3000	13.34	0.74
3300	14.06	0.70
3400	14.28	0.69
3500	14.52	0.68
3600	14.75	0.64
3800	15.21	0.62

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

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