



DATA SHEET

HPL 50-3/8 SF HFR

AST
M5306

High Fire resistant Low smoke Zero Halogen Jacket

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- 1 - Inner Conductor** : Copper -clad Aluminium
Diameter : 2.80 ± 0.05 mm
 - 2 - Dielectric** : Foam Polyethylene

Diameter : 6.90 ± 0.20 mm
Eccentricity : < 2%
 - 3 - Outer Conductor** : Helically corrugated copper tube
Diameter over outer conductor : 9.60 ± 0.20 mm
Diameter inside bottom : 6.60 ± 0.20 mm
Section length : 2.75 ± 0.05 mm
 - 4 - Jacket** : Black High Fire resistant Low smoke Zero Halogen Compound
Diameter : 11.15 ± 0.15 mm
 - 5 - Ink marking** : Metric length
- ACOME HPL 50-3/8SF LSOH HFR M5306 UL CATVR 10 AWG 75°C LOT lot N°**



Mechanical & Environmental Characteristics

Packaging : 500 meters
Weight approx : 134kg/km
Fire resistance : IEC332-1/332-3A/UL1666/NFC32070.2.2/RATPK26
Smoke toxicity : IEC754-2/NFC20-454
Smoke density : IEC1034

Installation Bending radius : 25 mm - Min.
Operating Bending radius : 45 mm - Min.
Tensile Strength : 500 N-Max
Bending moment at 90° : 3 Nm
Installation temperature range : -20°C / + 60°C
Operating temperature range : -40°C / + 85°C

Electrical Characteristics

Impedance : $50 \pm 1\Omega$
Capacitance : 80 ± 1.5 pF/m
Intermodulation IM3 (GSM-UMTS) maxi : -158 dBc (-163 dBc typical)
Velocity : 83%, Dielectric constant : 1.45, typical values
Screening effectiveness : > 120 dB

Max Operating frequency : 12 GHz
Peak power rating : 8.6 kW
Operating voltage : 0.9 kV RMS
Test voltage : 2.0 kV RMS
Insulation Resistance : > 10000 M Ω .km
DC resistance : Inner conductor : $\leq 4.76\Omega$ /km
: Outer conductor : $\leq 4.95\Omega$ /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
30	2,17	4,55
80	3,57	2,76
150	4,93	2,00
450	8,73	1,13
824	12,03	0,82
900	12,61	0,78
960	13,05	0,76
1000	13,34	0,74
1500	16,61	0,59
1700	17,79	0,55
1800	18,35	0,54
1900	18,91	0,52

Frequency MHz	Attenuation db/100m @ 20°C Typical	Power kW @ 40°C-Ambient Temp Inner conductor : 100°C
2000	19,45	0,51
2200	20,50	0,48
2300	21,03	0,47
2400	21,52	0,46
2500	22,01	0,45
3000	24,38	0,4
3300	25,71	0,379
3400	26,15	0,376
3500	26,58	0,37
3600	27,02	0,36
3800	27,86	0,34

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

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