



DATA SHEET

RADIACELL HPL50-1-1/4RM

Fire Retardant Low Smoke Zero Halogen

AST
M5400X

Page: 1/1

- 1 - Inner Conductor** : Copper tube
Outer Diameter : 13.0 ± 0.10 mm

- 2 - Dielectric** : Foam Polyethylene
Diameter : 32.20 ± 0.20 mm
Eccentricity : < 4%

- 3 - Outer conductor** : Annularly corrugated copper tube
Holes milled in the top of corrugation of the outer conductor
Diameter over outer conductor : 35.70 ± 0.30 mm
Diameter outside bottom : 32.5 ± 0.30 mm
Section length : 8 ± 0.20 mm

- 4 - Jacket** : Low Smoke Zero Halogen Compound
Diameter : 39.50 ± 0.50 mm

- 5 - Ink marking** : Metric length



ACOME HYPERCELL COAX LSOH HPL 50-1-1/4RM M5400 LOT X lot N° +Meter

Mechanical and Environmental Characteristics

Packaging : 500 meters
Weight approx. : 1086 kg/km
Fire resistance : IEC 332-1 / IEC 332-3A
Smoke toxicity : IEC 754-2 / NFC 20-454
Smoke density : IEC 1034

Installation Bending Radius : 200 mm - Min
Operating Bending Radius : 380 mm - Min
Tensile Strength : 2500 N - Max.
Operating temperature range : -40°C / + 85°C
Installation temperature range : -20°C / + 60°C

Electrical Characteristics

Impedance : 50 ± 2 Ω
Capacitance : 76.5 PF/m(normal value)
VSWR : 1.25 from 100-2700 MHz
Velocity : 87%, Dielectric constant : 1.32, typical values

Operating frequency : 3GHz
Peak power rating : 181 kW
Operating voltage : 4.3 kV RMS
Test voltage : 8 kV RMS
Insulation Resistance : > 10000 MΩ.km
DC Resistance : inner conductor : ≤ 0.85 Ω/km
: outer conductor : ≤ 0.71 Ω/km

Test methods are meeting the requirements of : IEC 68 - 1196

| Frequency MHz | 150 | 450 | 900 | 1800 | 2400 |
|--|------|------|------|------|------|
| Attenuation dB/100 m Max At 20°C | 1.30 | 3.00 | 4.30 | 5.60 | 6.90 |
| Coupling Loss(50%)±5dB Measure at 2m to cable | 64 | 75 | 77 | 84 | 76 |

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Edition : A2 - 11 / 07 / 2008