

DATA SHEET

SUCORAD_1/2

Flame Retardant Low Smoke Zero Halogen

- 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
Holes milled in the top of corrugation of the outer conductor
Diameter over outer conductor : 13.70 ± 0.20 mm
Diameter outside bottom : 12.10 ± 0.20 mm
Section length : 5.0 ± 0.05 mm
- 4 - Jacket** : Low Smoke Zero Halogen Compound
Diameter : 16.0 ± 0.30 mm
- 5 - Ink marking** : Metric length



HUBER+SUHNER_SUCORAD_1/2_Batch-number_metric-length

Mechanical and Environmental Characteristics

Packaging : 500 meters
Weight approx. : 231 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 : 70 mm - Min
Operating Bending Radius : 125 mm - Min
Tensile Strength : 1100 N - Max.
Operating temperature range : -40°C / + 85°C
Installation temperature range : -20°C / + 60°C

Electrical Characteristics

Impedance : $50 \pm 2 \Omega$
Capacitance : 76 PF/m(normal value)
Return Loss : Mini 19.1dB from 100-2700 MHz
Velocity : 88%, Dielectric constant : 1.32, typical values

Inductance: 0.19μ H/m (typical)
Operating frequency : 8GHz
Peak power rating : 25.6 kW
Operating voltage : 1.6 kV RMS
Test voltage : 3.3 kV RMS
Insulation Resistance : > 10000 M Ω .km
DC Resistance : inner conductor : $\leq 1.60 \Omega$ /km
: outer conductor : $\leq 2.65 \Omega$ /km

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

Frequency MHz	150	450	900	1800	2400
Attenuation dB/100 m Max	3.3	6.6	9.5	13.1	15.7
Coupling Loss(50%) \pm 10dB Measure at 2m to cable	61	63	68	73	73

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