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Radio Frequency

Fiber Optics

Low Frequency

RF Coaxial Cables

Type K_02252_D

This product is not available in the e-commerce store

| | |
|---|-------------------------------|
| Description | PTFE - 50 Ohm - double screen |
| Item number | 22510218 |
| 2011/65/EC (RoHS) | compliant |
| Halogen Free | No |
| 2002/96/EC (WEEE) | no special marking needed |
| 2000/53/EC (ELV) | compliant |
| Verified for Lead-Free Soldering | yes |
| Data sheet | K_02252_D |

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Cable design



| | Material | Detail | Diameter |
|----------------------------|--------------------------------------|----------------------|-----------|
| Centre conductor | Steel, Copper+Silver plated | Strand-07 | 0.54 mm |
| Dielectric | PTFE (Polytetrafluoroethylene) | | 1.55 mm |
| Outer conductor 1 | Copper, Silver plated | Braid - 96% coverage | 2 mm |
| Outer conductor 2 | Copper, Silver plated | Braid - 91% coverage | 2.50 mm |
| Jacket | FEP (Fluorinated ethylene propylene) | RAL 8015 - br | 3 |
| Tolerance of jacket | | | ± 0.10 mm |

Electrical data

| | | |
|-----------------------------|--|--|
| Operating Frequency | | ≤ 6 GHz |
| Nom. attenuation | Values and graph see below | Coefficient a 0.7865 Coefficient b 0.1210 |
| CW Power | Values and graph see below | 149 W |
| Impedance | | 50 ± 2 Ω |
| Capacitance | | 97 pF/m |
| Propagation velocity | | 69 % of c |
| Signal delay | | 4.86 ns/m |
| Insulation resist | | > 100000000 MΩm |
| Test Voltage | | 1.70 kVrms |
| Operating Voltage | at sea level | 0.85 kVrms |
| Inner Cond Res DC | typical | 235 Ω/km |
| Outer Cond R. DC | typical | 14.40 Ω/km |

General data

| | | |
|-----------------------------|-------------|--------------|
| Operating Temp min | | -65 °C |
| Operating Temp max | | 165 °C |
| Flame propagation | Fire Test a | IEC 60332-3 |
| Weight | | 2.40 kg/100m |
| Static Bend Radius | | 18 mm |
| Repeated Bend Radius | | 30 mm |
| Dynamic Bend Radius | | 45 mm |

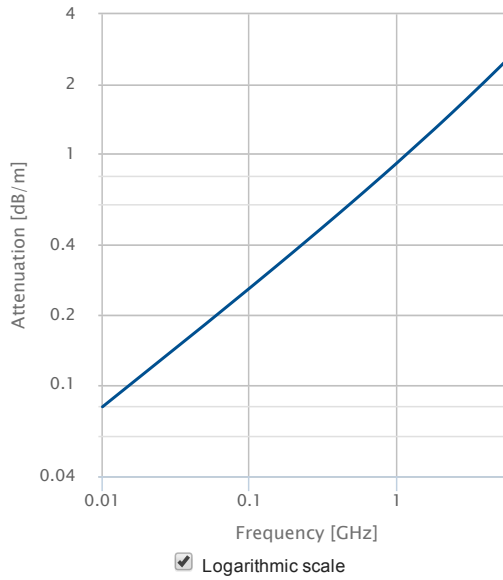
Suitable connectors, grounding kits and installation material

Cable Groups For details contact your nearest HUBER+SUHNER representative Cable Group U4

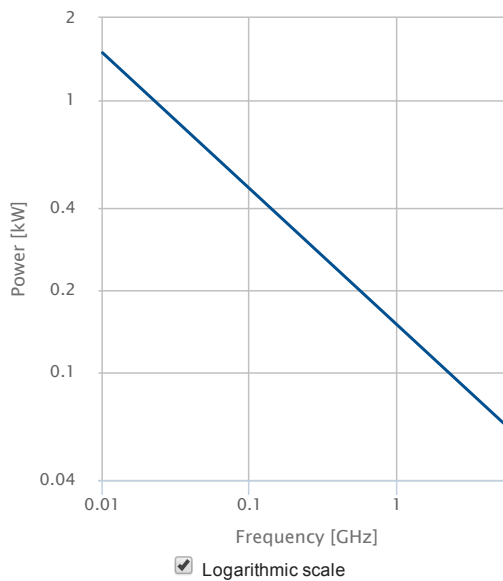
Nominal attenuation and power

| [GHz] | [dB/m] | [dB/ft] | [W] |
|-------|--------|---------|------|
| 0.01 | 0.08 | 0.02 | 1490 |
| 0.05 | 0.18 | 0.06 | 666 |
| 0.1 | 0.26 | 0.08 | 471 |
| 0.15 | 0.32 | 0.10 | 385 |
| 0.2 | 0.38 | 0.11 | 333 |
| 0.3 | 0.47 | 0.14 | 272 |
| 0.4 | 0.55 | 0.17 | 236 |
| 0.45 | 0.58 | 0.18 | 222 |
| 0.5 | 0.62 | 0.19 | 211 |
| 0.6 | 0.68 | 0.21 | 192 |
| 0.8 | 0.80 | 0.24 | 167 |
| 0.85 | 0.83 | 0.25 | 162 |
| 0.9 | 0.86 | 0.26 | 157 |
| 0.95 | 0.88 | 0.27 | 153 |
| 1 | 0.91 | 0.28 | 149 |
| 1.8 | 1.27 | 0.39 | 111 |
| 1.9 | 1.31 | 0.40 | 108 |
| 2 | 1.35 | 0.41 | 105 |
| 2.4 | 1.51 | 0.46 | 96 |
| 3 | 1.73 | 0.53 | 86 |
| 4 | 2.06 | 0.63 | 74 |
| 5 | 2.36 | 0.72 | 67 |
| 6 | 2.65 | 0.81 | 61 |

Attenuation graph



Power graph



Please note: Attenuation values at +25°C ambient temperature and sea level * Power values at +40°C ambient temperature and sea level **

Tests

Following tests have been passed successfully. For any details please contact your nearest HUBER+SUHNER representative.

Test description

Specification / Paragraph / Method

Fire Test a

IEC 60332-3

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