



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 06132 D-10

Double screened coaxial cable

Cable Design



| | Material | Detail | Diameter |
|---------------------|--|----------------------|----------------|
| Centre conductor: | CuAg | Strand-07 (0.75 mm) | 2.25 mm |
| Dielectric: | SPE | | 5.8 mm |
| 1. Outer conductor: | CuAg Braid | 94% coverage | 6.55 mm |
| 2. Outer conductor: | CuAg Braid | 96% coverage | 7.25 mm |
| Jacket: | PVC2 | RAL 9005 - bk | 8.95 mm +/-0.1 |
| Print: | SUHNER SWITZERLAND S 06132 D-10 50 Ohm | | |

Electrical Data

| | |
|---------------------------------|---------------------------------------|
| Impedance: | 50 Ω +/-2 |
| Max. operating frequency: | 4 GHz |
| Capacitance : | 82.5 pF / m |
| Velocity of signal propagation: | 81 % |
| Signal delay: | 4.12 ns / m |
| Min. screening effectiveness: | > 75 dB (up to 4 GHz) |
| Max. operating voltage: | 0.75 kV _{rms} (at sea level) |
| Test voltage: | 2 kV _{rms} (50 Hz/ 1min) |
| Insulation resistance: | > 10 M Ω m |

General Data

| | |
|-----------------------|---------------------------------------|
| Temperature range: | -40 °C...+ 85 °C |
| Weight: | 13.1 kg / 100 m |
| Min. bending radius : | static 25 mm |
| | repeated (for max. 50 bendings) 50 mm |
| | dynamic 100 mm |

Suitable Connectors

| | |
|---|-----------|
| Cable group | S26 / n/a |
| (for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner) | |

Notes

Order as **S 06132 D-10** under article number **22511629**

WAIVER!

While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be constructed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



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Matrix **Attenuation** [formula : $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula : $(p \cdot f^{0.5})$]

Coefficients:

$a = 0.246$

$b = 0.0445$

$f_{\max} = 4$

$p_{\text{at } 1\text{GHz}} = 125$

| Frequency (GHz) | Nom. attenuation (dB / m) sea level 25° C ambient temperature | Nom. attenuation (dB / ft) sea level 25° C ambient temperature | Max. CW power (watt) sea level 40° C ambient temperature |
|--------------------|--|---|---|
| 0.20 | 0.119 | 0.0363 | 279.5 |
| 0.40 | 0.173 | 0.0527 | 197.6 |
| 0.60 | 0.217 | 0.0661 | 161.4 |
| 0.80 | 0.256 | 0.0780 | 139.8 |
| 1.00 | 0.291 | 0.0887 | 125.0 |
| 1.20 | 0.323 | 0.0984 | 114.1 |
| 1.40 | 0.353 | 0.1076 | 105.6 |
| 1.60 | 0.382 | 0.1164 | 98.8 |
| 1.80 | 0.410 | 0.1250 | 93.2 |
| 2.00 | 0.437 | 0.1332 | 88.4 |
| 2.20 | 0.463 | 0.1411 | 84.3 |
| 2.40 | 0.488 | 0.1487 | 80.7 |
| 2.60 | 0.512 | 0.1560 | 77.5 |
| 2.80 | 0.536 | 0.1634 | 74.7 |
| 3.00 | 0.560 | 0.1707 | 72.2 |
| 3.20 | 0.582 | 0.1774 | 69.9 |
| 3.40 | 0.605 | 0.1844 | 67.8 |
| 3.60 | 0.627 | 0.1911 | 65.9 |
| 3.80 | 0.649 | 0.1978 | 64.1 |
| 4.00 | 0.670 | 0.2042 | 62.5 |

Test (following tests have been passed successfully)

Aging: MIL-C-17 - §4.8.16

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