



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE K 02252 D

*Double screened coaxial cable*

### Cable Design



	<b>Material</b>	<b>Detail</b>	<b>Diameter</b>
Centre conductor:	StCuAg	Strand-07 ( 0.18 mm)	0.54 mm
Dielectric:	PTFE		1.55 mm
1. Outer conductor:	CuAg Braid	96% coverage	2 mm
2. Outer conductor:	CuAg Braid	91% coverage	2.5 mm
Jacket:	FEP	RAL 8015 - br	3 mm +/-0.1
Print:	SUHNER SWITZERLAND K 02252 D 50 Ohm		

### Electrical Data

Impedance:	50 $\Omega$ +/-2
Max. operating frequency:	5 GHz
Capacitance :	97.2 pF / m
Velocity of signal propagation:	69 %
Signal delay:	4.86 ns / m
Min. screening effectiveness:	> 80 dB (up to 6 GHz)
Max. operating voltage:	0.85 kV <sub>rms</sub> (at sea level)
Test voltage:	2 kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 10 M $\Omega$ m

### General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	2.4 kg / 100 m
Min. bending radius :	static 15 mm
	repeated (for max. 50 bendings) 30 mm
	dynamic 60 mm

### Suitable Connectors

Cable group *U4 / U4*  
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

### Notes

Order as **K 02252 D** under article number **22510218**

#### 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 construed 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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Issued: 25.6.2002 15:54

Document: TEMP\_PDB\_2251021  
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### Matrix Attenuation [formula : (a\*f^0.5 +b\*f)] and Power CW [formula : (p\*/f^0.5)]

Coefficients:

a= 0.7805

b= 0.101

f<sub>max</sub>= 5

p<sub>at 1GHz</sub> = 149

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
0.25	0.416	0.1268	298.0
0.50	0.602	0.1835	210.7
0.75	0.752	0.2292	172.1
1.00	0.882	0.2688	149.0
1.25	0.999	0.3045	133.3
1.50	1.107	0.3374	121.7
1.75	1.209	0.3685	112.6
2.00	1.306	0.3980	105.4
2.25	1.398	0.4261	99.3
2.50	1.487	0.4532	94.2
2.75	1.572	0.4791	89.9
3.00	1.655	0.5044	86.0
3.25	1.735	0.5288	82.7
3.50	1.814	0.5529	79.6
3.75	1.890	0.5760	76.9
4.00	1.965	0.5989	74.5
4.25	2.038	0.6212	72.3
4.50	2.110	0.6431	70.2
4.75	2.181	0.6647	68.4
5.00	2.250	0.6858	66.6

**Test** (following tests have been passed successfully)

Flame propagation: IEC 332-3

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