



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE S 04262 D

**Double screened coaxial cable - flame retardant - free of halogen**

### Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire ( 1.4 mm)	1.4 mm
Dielectric:	SPE		3.78 mm
1. Outer conductor:	CuAg Braid	96% coverage	4.2 mm
2. Outer conductor:	CuAg Braid	94% coverage	4.7 mm
Jacket:	LSFH	RAL 9005 - bk	5.7 mm +/-0.1
Print:	SUHNER SWITZERLAND S 04262 D 50 Ohm		

### Electrical Data

Impedance:	50 $\Omega$ +/-2
Max. operating frequency:	6 GHz
Capacitance :	81.6 pF / m
Velocity of signal propagation:	82 %
Signal delay:	4.08 ns / m
Min. screening effectiveness:	> 80 dB (up to 6 GHz)
Max. operating voltage:	0.5 kV <sub>rms</sub> (at sea level)
Test voltage:	1 kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 10 M $\Omega$ m

### General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	5.5 kg / 100 m
Min. bending radius :	static 30 mm
	repeated (for max. 50 bendings) 60 mm
	dynamic 120 mm

### Suitable Connectors

Cable group	S16
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

### Notes

Order as **S 04262 D** under article number **22511966**

#### WAIVER!

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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:

$a = 0.2938$

$b = 0.0421$

$f_{\max} = 6$

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

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
0.30	0.174	0.0530	228.2
0.60	0.253	0.0771	161.4
0.90	0.317	0.0966	131.8
1.20	0.372	0.1134	114.1
1.50	0.423	0.1289	102.1
1.80	0.470	0.1432	93.2
2.10	0.514	0.1567	86.3
2.40	0.556	0.1695	80.7
2.70	0.596	0.1817	76.1
3.00	0.635	0.1935	72.2
3.30	0.673	0.2051	68.8
3.60	0.709	0.2161	65.9
3.90	0.744	0.2268	63.3
4.20	0.779	0.2374	61.0
4.50	0.813	0.2478	58.9
4.80	0.846	0.2578	57.1
5.10	0.878	0.2676	55.4
5.40	0.910	0.2774	53.8
5.70	0.941	0.2868	52.4
6.00	0.972	0.2963	51.0

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

Flame propagation: IEC 332-1 UL 1581 - §1080 (VW-1)

Halogen content IEC 754

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