



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE S 06162 D-02

*Double screened coaxial cable*

### Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire ( 2.05 mm)	2.05 mm
Dielectric:	SPE		5.6 mm
1. Outer conductor:	CuAg Braid	93% coverage	6.1 mm
2. Outer conductor:	CuAg Braid	85% coverage	6.75 mm
Jacket:	LSFH	RAL 9005 - bk	7.9 mm +/-0.1
Print:	SUHNER SWITZERLAND S 06162 D-02 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:	> 82 dB (up to 6 GHz)
Max. operating voltage:	0.75 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:	-40 °C...+ 85 °C
Weight:	11 kg / 100 m
Min. bending radius :	static 30 mm
	repeated (for max. 50 bendings) 60 mm

### Suitable Connectors

Cable group S24  
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

### Notes

Order as **S 06162 D-02** under article number **22511923**

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Page 1



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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:

$a = 0.1952$

$b = 0.037$

$f_{\max} = 6$

$p_{\text{at } 1\text{GHz}} = 180$

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	0.118	0.0360	328.6
0.60	0.173	0.0527	232.4
0.90	0.218	0.0664	189.7
1.20	0.258	0.0786	164.3
1.50	0.295	0.0899	147.0
1.80	0.328	0.1000	134.2
2.10	0.361	0.1100	124.2
2.40	0.391	0.1192	116.2
2.70	0.421	0.1283	109.5
3.00	0.449	0.1368	103.9
3.30	0.477	0.1454	99.1
3.60	0.504	0.1536	94.9
3.90	0.530	0.1615	91.1
4.20	0.555	0.1692	87.8
4.50	0.581	0.1771	84.9
4.80	0.605	0.1844	82.2
5.10	0.630	0.1920	79.7
5.40	0.653	0.1990	77.5
5.70	0.677	0.2063	75.4
6.00	0.700	0.2133	73.5

**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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Page 2



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