



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 04262 D-03

Double screened coaxial cable - flame retardant - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	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 +/- 0.15
Print:	SUHNER SWITZERLAND S 04262 D-03 50 Ohm TZA 50025		

Electrical Data

Impedance:	50 Ω +/- 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 _{rms} (at sea level)
Test voltage:	1 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	5.5 kg / 100 m
Min. bending radius :	static 32 mm
	repeated (for max. 50 bendings) 65 mm
	dynamic 130 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-03** under article number **22512246**

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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:

$a = 0.28$

$b = 0.046$

$f_{\max} = 6$

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

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	0.167	0.0509	228.2
0.60	0.244	0.0744	161.4
0.90	0.307	0.0936	131.8
1.20	0.362	0.1103	114.1
1.50	0.412	0.1256	102.1
1.80	0.458	0.1396	93.2
2.10	0.502	0.1530	86.3
2.40	0.544	0.1658	80.7
2.70	0.584	0.1780	76.1
3.00	0.623	0.1899	72.2
3.30	0.660	0.2012	68.8
3.60	0.697	0.2124	65.9
3.90	0.732	0.2231	63.3
4.20	0.767	0.2338	61.0
4.50	0.801	0.2441	58.9
4.80	0.834	0.2542	57.1
5.10	0.867	0.2642	55.4
5.40	0.899	0.2740	53.8
5.70	0.931	0.2838	52.4
6.00	0.962	0.2932	51.0

Test (following tests have been passed successfully)

Flame propagation: IEC 332-1

Halogen content IEC 754

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