



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 04172 D

Double screened coaxial cable - 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:	PE	RAL 9005 - bk	5.7 mm +/-0.1
Print:	SUHNER SWITZERLAND S 04172 D 50 Ohm		

Electrical Data

Impedance:	50	Ω +/-2
Max. operating frequency:	5	GHz
Capacitance :	81.6	pF / m
Velocity of signal propagation:	82	%
Signal delay:	4.08	ns / m
Min. screening effectiveness:	> 82	dB (up to 1 GHz)
Max. operating voltage:	0.55	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	30 mm
	repeated (for max. 50 bendings)	60 mm
	dynamic	120 mm

Suitable Connectors

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

Notes

Order as **S 04172 D** under article number **22511598**

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Matrix Attenuation [formula : (a*f^0.5 +b*f)] and Power CW [formula : (p*/f^0.5)]

Coefficients:

a= 0.2938

b= 0.0401

f_{max}= 5

p_{at 1GHz} = 114

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	0.157	0.0479	228.0
0.50	0.228	0.0695	161.2
0.75	0.285	0.0869	131.6
1.00	0.334	0.1018	114.0
1.25	0.379	0.1155	102.0
1.50	0.420	0.1280	93.1
1.75	0.459	0.1399	86.2
2.00	0.496	0.1512	80.6
2.25	0.531	0.1618	76.0
2.50	0.565	0.1722	72.1
2.75	0.597	0.1820	68.7
3.00	0.629	0.1917	65.8
3.25	0.660	0.2012	63.2
3.50	0.690	0.2103	60.9
3.75	0.719	0.2191	58.9
4.00	0.748	0.2280	57.0
4.25	0.776	0.2365	55.3
4.50	0.804	0.2450	53.7
4.75	0.831	0.2533	52.3
5.00	0.857	0.2612	51.0

Halogen content IEC 754

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