



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 03212 D-02

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire (1.1 mm)	1.1 mm
Dielectric:	SPE		2.96 mm
1. Outer conductor:	CuAg Braid	95% coverage	3.55 mm
2. Outer conductor:	CuAg Braid	94% coverage	4.13 mm
Jacket:	HYTREL	RAL 9005 - bk	5.4 mm +/-0.1
Print:	SUHNER SWITZERLAND S 03212 D-02 50 Ohm (Batch no.)		

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:	0.45 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:	5.43 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 50 mm

Suitable Connectors

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

Notes

Order as **S 03212 D-02** under article number **23005520**

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HUBER+SUHNER AG
 Interconnect Division
 CH-9100 Herisau
 Phone +41 (0)71 353 41 11
 Fax +41 (0)71 353 45 90
<http://www.hubersuhner.com>

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

Coefficients:

a= 0.257

b= 0.1

f_{max}= 6

p_{at 1GHz} = 98

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	0.171	0.0521	178.9
0.60	0.259	0.0789	126.5
0.90	0.334	0.1018	103.3
1.20	0.402	0.1225	89.5
1.50	0.465	0.1417	80.0
1.80	0.525	0.1600	73.0
2.10	0.582	0.1774	67.6
2.40	0.638	0.1945	63.3
2.70	0.692	0.2109	59.6
3.00	0.745	0.2271	56.6
3.30	0.797	0.2429	53.9
3.60	0.848	0.2585	51.7
3.90	0.898	0.2737	49.6
4.20	0.947	0.2886	47.8
4.50	0.995	0.3033	46.2
4.80	1.043	0.3179	44.7
5.10	1.090	0.3322	43.4
5.40	1.137	0.3465	42.2
5.70	1.184	0.3609	41.0
6.00	1.230	0.3749	40.0

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