



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 07232

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Wire (2.68 mm)	2.68 mm
Dielectric:	SPE		7.25 mm
1. Outer conductor:	Cu Braid	95% coverage	8.15 mm
Jacket:	PVC2	RAL 9005 - bk	10.3 mm +/-0.2
Print:	SUHNER SWITZERLAND S 07232 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	1 GHz
Capacitance :	81.6 pF / m
Velocity of signal propagation:	82 %
Signal delay:	4.08 ns / m
Min. screening effectiveness:	> 39 dB (up to 1 GHz)
Max. operating voltage:	1.05 kV _{rms} (at sea level)
Test voltage:	2 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	15.3 kg / 100 m
Min. bending radius :	static 50 mm
	repeated (for max. 50 bendings) 100 mm

Suitable Connectors

Cable group	U30 / U31
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

Notes

Order as **S 07232** under article number **22510389**

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HUBER+SUHNER

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 : $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula : $(p / f^{0.5})$]

Coefficients:

$a = 0.1412$

$b = 0.047$

$f_{\max} = 1$

$p_{\text{at } 1\text{GHz}} = 550$

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
0.05	0.034	0.0104	2'459.7
0.10	0.049	0.0149	1'739.3
0.15	0.062	0.0189	1'420.1
0.20	0.073	0.0222	1'229.8
0.25	0.082	0.0250	1'100.0
0.30	0.091	0.0277	1'004.2
0.35	0.100	0.0305	929.7
0.40	0.108	0.0329	869.6
0.45	0.116	0.0354	819.9
0.50	0.123	0.0375	777.8
0.55	0.131	0.0399	741.6
0.60	0.138	0.0421	710.0
0.65	0.144	0.0439	682.2
0.70	0.151	0.0460	657.4
0.75	0.158	0.0482	635.1
0.80	0.164	0.0500	614.9
0.85	0.170	0.0518	596.6
0.90	0.176	0.0536	579.8
0.95	0.182	0.0555	564.3
1.00	0.188	0.0573	550.0

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