



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE S 04233

*Single screened coaxial cable*

### Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Wire ( 0.83 mm)	0.83 mm
Dielectric:	SPE		3.7 mm
1. Outer conductor:	Cu Braid	92% coverage	4.35 mm
Jacket:	PVC	RAL 9005 - bk	6.1 mm +/-0.1
Print:	SUHNER SWITZERLAND S 04233 75 Ohm		

### Electrical Data

Impedance:	75 $\Omega$ +/-3
Max. operating frequency:	1 GHz
Capacitance :	54.4 pF / m
Velocity of signal propagation:	82 %
Signal delay:	4.08 ns / m
Min. screening effectiveness:	> 40 dB (up to 1 GHz)
Max. operating voltage:	0.5 kV <sub>rms</sub> (at sea level)
Test voltage:	1 kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 10 M $\Omega$ m

### General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	4.3 kg / 100 m
Min. bending radius :	static 35 mm
	repeated (for max. 50 bendings) 60 mm

### Suitable Connectors

Cable group *U17 / U15*  
 (for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

### Notes

Order as **S 04233** under article number **22610020**

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Page 1



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

Coefficients:

a= 0.2622

b= 0.036

f<sub>max</sub>= 1

p<sub>at 1GHz</sub> = 146

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	0.060	0.0183	652.9
0.10	0.087	0.0265	461.7
0.15	0.107	0.0326	377.0
0.20	0.124	0.0378	326.5
0.25	0.140	0.0427	292.0
0.30	0.154	0.0469	266.6
0.35	0.168	0.0512	246.8
0.40	0.180	0.0549	230.8
0.45	0.192	0.0585	217.6
0.50	0.203	0.0619	206.5
0.55	0.214	0.0652	196.9
0.60	0.225	0.0686	188.5
0.65	0.235	0.0716	181.1
0.70	0.245	0.0747	174.5
0.75	0.254	0.0774	168.6
0.80	0.263	0.0802	163.2
0.85	0.272	0.0829	158.4
0.90	0.281	0.0856	153.9
0.95	0.290	0.0884	149.8
1.00	0.298	0.0908	146.0

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Page 2