



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE S 03133-01

*Single screened coaxial cable*

### Cable Design



	Material	Detail	Diameter
Centre conductor:	StCu	Wire ( 0.58 mm)	0.58 mm
Dielectric:	SPE		2.55 mm
1. Outer conductor:	Cu Braid	94% coverage	3.2 mm
Jacket:	PVC2	RAL 9005 - bk	4.5 mm +/-0.1
Print:	SUHNER SWITZERLAND S 03133-01 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:	> 39 dB (up to 1 GHz)
Max. operating voltage:	0.35 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:	2.7 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 45 mm
	dynamic 90 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 03133-01** under article number **22511626**

#### WAIVER!

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

Coefficients:

a= 0.3769

b= 0.041

f<sub>max</sub>= 1

p<sub>at 1GHz</sub> = 92

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	0.086	0.0262	411.4
0.10	0.123	0.0375	290.9
0.15	0.152	0.0463	237.5
0.20	0.177	0.0539	205.7
0.25	0.199	0.0607	184.0
0.30	0.219	0.0667	168.0
0.35	0.237	0.0722	155.5
0.40	0.255	0.0777	145.5
0.45	0.271	0.0826	137.1
0.50	0.287	0.0875	130.1
0.55	0.302	0.0920	124.1
0.60	0.317	0.0966	118.8
0.65	0.331	0.1009	114.1
0.70	0.344	0.1048	110.0
0.75	0.357	0.1088	106.2
0.80	0.370	0.1128	102.9
0.85	0.382	0.1164	99.8
0.90	0.394	0.1201	97.0
0.95	0.406	0.1237	94.4
1.00	0.418	0.1274	92.0

**Test** (following tests have been passed successfully)

Aging: MIL-C-17 - §4.8.16

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