



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 03232-01

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Strand-07 (0.4 mm)	1.2 mm
Dielectric:	SPE		2.95 mm
1. Outer conductor:	Cu Braid	95% coverage	3.6 mm
2. Outer conductor:	n/a n/a		
3. Outer conductor:	n/a n/a		
Jacket:	PVC2	RAL 9005 - bk	5 mm +/-0.15
Print:	SUHNER SWITZERLAND S 03232-01 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:	> 40 dB (up to 1 GHz)
Max. operating voltage:	0.45 kV _{rms} (at sea level)
Test voltage:	1 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 MΩm

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	3.8 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 50 mm
	dynamic 100 mm

Suitable Connectors

Cable group **U8**
 (for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 03232-01** under article number **22610021**

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

Coefficients:

a= 0.3985

b= 0.0813

f_{max}= 1

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
0.05	0.093	0.0283	438.3
0.10	0.134	0.0408	309.9
0.15	0.167	0.0509	253.0
0.20	0.194	0.0591	219.1
0.25	0.220	0.0671	196.0
0.30	0.243	0.0741	178.9
0.35	0.264	0.0805	165.7
0.40	0.285	0.0869	155.0
0.45	0.304	0.0927	146.1
0.50	0.322	0.0981	138.6
0.55	0.340	0.1036	132.1
0.60	0.357	0.1088	126.5
0.65	0.374	0.1140	121.6
0.70	0.390	0.1189	117.1
0.75	0.406	0.1237	113.2
0.80	0.421	0.1283	109.6
0.85	0.437	0.1332	106.3
0.90	0.451	0.1375	103.3
0.95	0.466	0.1420	100.5
1.00	0.480	0.1463	98.0

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