



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02223-01

Single screened coaxial cable - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Wire (0.35 mm)	0.35 mm
Dielectric:	SPE		1.55 mm
1. Outer conductor:	Cu Braid	94% coverage	2 mm
2. Outer conductor:	n/a n/a		
3. Outer conductor:	n/a n/a		
Jacket:	PVC (No print)		2.55 mm +/-0.1
Screen:	n/a n/a		
Armour E:	n/a		
Armour F:	n/a		
Armour G:	n/a		
Armour H:	n/a		
Jacket:	n/a		mm

Electrical Data

Impedance:	75 Ω +/-6
Max. operating frequency:	1 GHz
Capacitance :	56 pF / m
Velocity of signal propagation:	0.794285714 %
Signal delay:	4.196642686 ns / m
Min. screening effectiveness:	> 40 dB (up to 1 GHz)
Max. operating voltage:	0.2 kV _{rms} (at sea level)
Test voltage:	0.4 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 MΩm

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	1.1 kg / 100 m
Min. bending radius :	static 15 mm
	repeated (for max. 50 bendings) 25 mm

Suitable Connectors

Cable group S5 / U2
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 02223-01** under article number **22511274**

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

Coefficients:

a= 0.616

b= 0.067

f_{max}= 1

p_{at 1GHz} = 33

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	0.141	0.0430	147.6
0.10	0.201	0.0613	104.4
0.15	0.249	0.0759	85.2
0.20	0.289	0.0881	73.8
0.25	0.325	0.0991	66.0
0.30	0.357	0.1088	60.2
0.35	0.388	0.1183	55.8
0.40	0.416	0.1268	52.2
0.45	0.443	0.1350	49.2
0.50	0.469	0.1429	46.7
0.55	0.494	0.1506	44.5
0.60	0.517	0.1576	42.6
0.65	0.540	0.1646	40.9
0.70	0.562	0.1713	39.4
0.75	0.584	0.1780	38.1
0.80	0.605	0.1844	36.9
0.85	0.625	0.1905	35.8
0.90	0.645	0.1966	34.8
0.95	0.664	0.2024	33.9
1.00	0.683	0.2082	33.0

Test (following tests have been passed successfully)

Flame propagation: n/a n/a n/a
Halogen content n/a
Smoke: n/a
Radiation: n/a
Stress: n/a
Aging: n/a
Ozone: n/a
Crack: n/a
Toxicity: n/a
Abrasion: n/a

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