



SUHNER® COAXIAL CABLE DATA SHEET

TYPE SX 04272 D-02

Double screened coaxial cable - flame retardant - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire (1.4 mm)	1.4 mm
Dielectric:	SPEX		3.78 mm
1. Outer conductor:	CuAg Braid	97% coverage	4.2 mm
2. Outer conductor:	CuAg Braid	93% coverage	4.7 mm
Jacket:	RADOX	RAL 9005 - bk	5.7 mm +/-0.15
Print:	SUHNER SWITZERLAND SX 04272 D-02 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	6 GHz
Capacitance :	81.6 pF / m
Velocity of signal propagation:	82 %
Signal delay:	4.08 ns / m
Min. screening effectiveness:	> 79 dB (up to 6 GHz)
Max. operating voltage:	0.5 kV _{rms} (at sea level)
Test voltage:	1 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-25 °C...+ 100 °C
Weight:	5.5 kg / 100 m
Min. bending radius :	static 30 mm
	repeated (for max. 50 bendings) 60 mm
	dynamic 120 mm

Suitable Connectors

Cable group	S16 / n/a
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

Notes

Order as **SX 04272 D-02** under article number **22511926**

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

Coefficients:

$a = 0.264$

$b = 0.062$

$f_{\max} = 6$

$p_{\text{at } 1\text{GHz}} = 190$

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
0.30	0.163	0.0497	346.9
0.60	0.242	0.0738	245.3
0.90	0.306	0.0933	200.3
1.20	0.364	0.1109	173.4
1.50	0.416	0.1268	155.1
1.80	0.466	0.1420	141.6
2.10	0.513	0.1564	131.1
2.40	0.558	0.1701	122.6
2.70	0.601	0.1832	115.6
3.00	0.643	0.1960	109.7
3.30	0.684	0.2085	104.6
3.60	0.724	0.2207	100.1
3.90	0.763	0.2326	96.2
4.20	0.801	0.2441	92.7
4.50	0.839	0.2557	89.6
4.80	0.876	0.2670	86.7
5.10	0.912	0.2780	84.1
5.40	0.948	0.2889	81.8
5.70	0.984	0.2999	79.6
6.00	1.019	0.3106	77.6

Test (following tests have been passed successfully)

Flame propagation: IEC 332-1

Halogen content IEC 754

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