



SUHNER® COAXIAL CABLE DATA SHEET

TYPE GX 07272 D

Double screened coaxial cable - flame retardant - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Strand-07 (0.75 mm)	2.25 mm
Dielectric:	PEX		7.28 mm
1. Outer conductor:	CuAg Braid	93% coverage	8 mm
2. Outer conductor:	CuAg Braid	95% coverage	8.7 mm
Jacket:	RADOX	RAL 9005 - bk	10.8 mm +/-0.1
Print:	SUHNER SWITZERLAND GX 07272 D 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	6 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 81 dB (up to 6 GHz)
Max. operating voltage:	5 kV _{rms} (at sea level)
Test voltage:	10 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-25 °C...+ 100 °C
Weight:	19.8 kg / 100 m
Min. bending radius :	static 60 mm
	repeated (for max. 50 bendings) 110 mm
	dynamic 220 mm

Suitable Connectors

Cable group	U32 / U33
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

Notes

Order as **GX 07272 D** under article number **22511171**

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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:

$a = 0.223$

$b = 0.0604$

$f_{\max} = 6$

$p_{\text{at } 1\text{GHz}} = 560$

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	0.140	0.0427	1'022.4
0.60	0.209	0.0637	723.0
0.90	0.266	0.0811	590.3
1.20	0.317	0.0966	511.2
1.50	0.364	0.1109	457.2
1.80	0.408	0.1244	417.4
2.10	0.450	0.1372	386.4
2.40	0.490	0.1493	361.5
2.70	0.530	0.1615	340.8
3.00	0.567	0.1728	323.3
3.30	0.604	0.1841	308.3
3.60	0.641	0.1954	295.1
3.90	0.676	0.2060	283.6
4.20	0.711	0.2167	273.3
4.50	0.745	0.2271	264.0
4.80	0.778	0.2371	255.6
5.10	0.812	0.2475	248.0
5.40	0.844	0.2572	241.0
5.70	0.877	0.2673	234.6
6.00	0.909	0.2770	228.6

Test (following tests have been passed successfully)

Flame propagation: IEC 332-1

Halogen content IEC 754

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