



SUHNER® COAXIAL CABLE DATA SHEET

TYPE GX 07272 D-02

Double screened coaxial cable - flame retardant - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Strand-07 (0.75 mm)	2.15 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 9010 - wh	10.8 mm +/-0.1
Print:	SUHNER SWITZERLAND GX 07272 D-02 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-02** under article number **22511895**

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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:

$a = 0.203$

$b = 0.0674$

$f_{\max} = 6$

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

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	0.131	0.0399	1'022.4
0.60	0.198	0.0603	723.0
0.90	0.253	0.0771	590.3
1.20	0.303	0.0923	511.2
1.50	0.350	0.1067	457.2
1.80	0.394	0.1201	417.4
2.10	0.436	0.1329	386.4
2.40	0.476	0.1451	361.5
2.70	0.516	0.1573	340.8
3.00	0.554	0.1689	323.3
3.30	0.591	0.1801	308.3
3.60	0.628	0.1914	295.1
3.90	0.664	0.2024	283.6
4.20	0.699	0.2130	273.3
4.50	0.734	0.2237	264.0
4.80	0.768	0.2341	255.6
5.10	0.802	0.2444	248.0
5.40	0.836	0.2548	241.0
5.70	0.869	0.2649	234.6
6.00	0.902	0.2749	228.6

Test (following tests have been passed successfully)

Flame propagation: IEC 332-1

Halogen content IEC 754

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