



# 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:	Copper: Silver Plated	Strand-07	2.25 mm
Dielectric:	PEX (Polyethylene cross-linked)		7.28 mm
1. Outer conductor:	Copper: Silver Plated Braid	93%	8 mm
2. Outer conductor:	Copper: Silver Plated Braid	95%	8.7 mm
Jacket:	RADOX (LSFH)	RAL 9005 - bk	10.8 mm +/- 0.1
Print:	HUBER+SUHNER GX 07272 D 50 Ohm (PA no.)		

### Electrical Data

Impedance:	50	$\Omega$ +/-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 <sub>rms</sub> (at sea level)
Test voltage:	10	kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M $\Omega$ /m

### General Data

Temperature range:	-40 °C... +105 °C
Weight:	19.8 kg / 100 m
Min. bending radius :	static 60 mm
	repeated (for max. 50 bendings) 110 mm

### Suitable Connectors

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

### Notes

#### WAIVER!

While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



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

Coefficients:

a= 0.203

b= 0.0674

f<sub>max</sub>= 6

p<sub>at 1GHz</sub> = 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 60332-1

Halogen content: IEC 60754

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