



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE GX 07272 D-04

*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 9005 - bk	10.8 mm +/-0.1
Print:	SUHNER SWITZERLAND GX 07272 D-04 50 Ohm		

### Electrical Data

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

### General Data

Temperature range:	-25 °C...+ 100 °C
Weight:	20.2 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-04** under article number **22511988**

#### 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 constructed 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.



HUBER+SUHNER AG  
Interconnect Division  
CH-9100 Herisau  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
<http://www.hubersuhner.com>

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Page 1



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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:

$a = 0.203$

$b = 0.0674$

$f_{\max} = 5$

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

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
0.25	0.118	0.0360	1'120.0
0.50	0.177	0.0539	792.0
0.75	0.226	0.0689	646.6
1.00	0.270	0.0823	560.0
1.25	0.311	0.0948	500.9
1.50	0.350	0.1067	457.2
1.75	0.386	0.1176	423.3
2.00	0.422	0.1286	396.0
2.25	0.456	0.1390	373.3
2.50	0.489	0.1490	354.2
2.75	0.522	0.1591	337.7
3.00	0.554	0.1689	323.3
3.25	0.585	0.1783	310.6
3.50	0.616	0.1877	299.3
3.75	0.646	0.1969	289.2
4.00	0.676	0.2060	280.0
4.25	0.705	0.2149	271.6
4.50	0.734	0.2237	264.0
4.75	0.763	0.2326	256.9
5.00	0.791	0.2411	250.4

**Test** (following tests have been passed successfully)

Flame propagation: IEC 332-1

Halogen content IEC 754

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Page 2