



SUHNER® COAXIAL CABLE DATA SHEET

TYPE G_04273_D-02

double screened coaxial cable - precision type

Cable Design



	Material	Detail	Diameter	
Centre conductor:	Copper	Strand-07	0.64 mm	
Dielectric:	PE (Polyethylene)		3.75 mm	
1. Outer conductor:	Copper: Tin Plated Braid	93%	4.35 mm	
2. Outer conductor:	Copper: Tin Plated Braid	92%	5 mm	
Jacket:	RADOX (LSFH)	RAL 9005 - bk	6.7 mm	+/- 0.15
Print:	HUBER+SUHNER G 04273 D-02 75 Ohm (PA no.)			

Electrical Data

Impedance:	75	Ω +/-1.5
Max. operating frequency:	6	GHz
Capacitance :	67.6	pF / m
Velocity of signal propagation:	66	%
Signal delay:	5.07	ns / m
Min. screening effectiveness:	> 81	dB (up to 6 GHz)
Max. operating voltage:	3	kV _{rms} (at sea level)
Test voltage:	6	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M Ω /m

General Data

Temperature range:	-40 °C... +85 °C
Weight:	7.8 kg / 100 m
Min. bending radius :	static 35 mm
	repeated (for max. 50 bendings) 70 mm

Suitable Connectors

Cable group *U18 / U18*
(for details refer to the "SUHNER coaxial connector catalogue" or contact your nearest HUBER+SUHNER partner)

Notes

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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= 0.3287

b= 0.0969

f_{max}= 6

p_{at 1GHz} = 134

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	0.209	0.0637	244.6
0.60	0.313	0.0954	173.0
0.90	0.399	0.1216	141.2
1.20	0.476	0.1451	122.3
1.50	0.548	0.1670	109.4
1.80	0.615	0.1874	99.9
2.10	0.680	0.2073	92.5
2.40	0.742	0.2262	86.5
2.70	0.802	0.2444	81.5
3.00	0.860	0.2621	77.4
3.30	0.917	0.2795	73.8
3.60	0.973	0.2966	70.6
3.90	1.027	0.3130	67.9
4.20	1.081	0.3295	65.4
4.50	1.133	0.3453	63.2
4.80	1.185	0.3612	61.2
5.10	1.236	0.3767	59.3
5.40	1.287	0.3923	57.7
5.70	1.337	0.4075	56.1
6.00	1.387	0.4227	54.7

Halogen content: IEC 60754

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