



SUHNER® COAXIAL CABLE DATA SHEET

TYPE G_04273-12

Single 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 Braid	92%	4.5 mm	
Jacket:	RADOX (GKW-S)	RAL 9005 - bk	6.1 mm	+/- 0.15
Print:	HUBER+SUHNER G 04273-12 75 OHM (PA no.)			

Electrical Data

Impedance:	75	Ω +/-1.5
Max. operating frequency:	3	GHz
Capacitance :	67.6	pF / m
Velocity of signal propagation:	66	%
Signal delay:	5.07	ns / m
Min. screening effectiveness:	> 40	dB (up to 3 GHz)
Max. operating voltage:	3	kV _{rms} (at sea level)
Test voltage:	6	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10	$\times 10^6$ M Ω /m

General Data

Temperature range:	-40 °C... +85 °C
Weight:	5.4 kg / 100 m
Min. bending radius :	static 35 mm
	repeated (for max. 50 bendings) 60 mm
	dynamic 120 mm

Suitable Connectors

Cable group *U15 / U16*
(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= 0.4

b= 0.0388

f_{max}= 3

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
0.15	0.161	0.0491	346.0
0.30	0.231	0.0704	244.6
0.45	0.286	0.0872	199.8
0.60	0.333	0.1015	173.0
0.75	0.376	0.1146	154.7
0.90	0.414	0.1262	141.2
1.05	0.451	0.1375	130.8
1.20	0.485	0.1478	122.3
1.35	0.517	0.1576	115.3
1.50	0.548	0.1670	109.4
1.65	0.578	0.1762	104.3
1.80	0.606	0.1847	99.9
1.95	0.634	0.1932	96.0
2.10	0.661	0.2015	92.5
2.25	0.687	0.2094	89.3
2.40	0.713	0.2173	86.5
2.55	0.738	0.2249	83.9
2.70	0.762	0.2322	81.5
2.85	0.786	0.2396	79.4
3.00	0.809	0.2466	77.4

Halogen content: IEC 60754

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