SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 223 /U-04

Double screened coaxial cable

Cable Design

	Material	Detail	Diameter
Centre conductor:	*CuAg*	*Wire* (*0.88* mm)	*0.88* mm
Dielectric:	*PE*		*2.95* mm
1. Outer conductor:	*CuAg Braid*	*96*% coverage	*3.6* mm
2. Outer conductor:	*CuAg Braid*	*94*% coverage	*4.2* mm
3. Outer conductor:	*n/a n/a*		
Jacket:	*PVC2*	*RAL 7035 - gr*	*5.4* mm *+/-0.15*
Print:	*SUHNER SWITZERLAND RG 223 /U-04 50 Ohm*		
Screen:	*n/a n/a*		
Armour E:	*n/a*		
Armour F:	*n/a*		
Armour G:	*n/a*		
Armour H:	*n/a*		
Jacket:	*n/a*		mm

Electrical Data

Impedance:		*50*	Ω *+/-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:		> *85*	*dB (up to 0.3 GHz)*
Max. operating voltage:		*2.5*	kV_{rms} (at sea level)
Test voltage:		*5*	kV_{rms} (50 Hz/ 1min)
Insulation resistance:		> *10*	MΩm

General Data

Temperature range:		*-40* °C...+ *85* °C	
Weight:		*5.5*	kg / 100 m
Min. bending radius :	*static*	*30*	*mm*
	repeated (for max. 50 bendings)	*55*	mm

Suitable Connectors

Cable group *U9 / U10*

(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as *RG 223 /U-04* under article number *22510074*

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

Coefficients:
a= 0.4056 *b= 0.0789* f_{max}=. *5* $p_{at\ 1GHz}$ = *120*

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	***0.223***	***0.0680***	***240.0***
0.50	***0.326***	***0.0994***	***169.7***
0.75	***0.410***	***0.1250***	***138.6***
1.00	***0.485***	***0.1478***	***120.0***
1.25	***0.552***	***0.1682***	***107.3***
1.50	***0.615***	***0.1874***	***98.0***
1.75	***0.675***	***0.2057***	***90.7***
2.00	***0.731***	***0.2228***	***84.9***
2.25	***0.786***	***0.2396***	***80.0***
2.50	***0.839***	***0.2557***	***75.9***
2.75	***0.890***	***0.2713***	***72.4***
3.00	***0.939***	***0.2862***	***69.3***
3.25	***0.988***	***0.3011***	***66.6***
3.50	***1.035***	***0.3155***	***64.1***
3.75	***1.081***	***0.3295***	***62.0***
4.00	***1.127***	***0.3435***	***60.0***
4.25	***1.171***	***0.3569***	***58.2***
4.50	***1.215***	***0.3703***	***56.6***
4.75	***1.259***	***0.3837***	***55.1***
5.00	***1.301***	***0.3965***	***53.7***

Test (following tests have been passed successfully)

Flame propagation:	*n/a*	*n/a*	*n/a*
Halogen content	*n/a*		
Smoke:	*n/a*		
Radiation:	*n/a*		
Stress:	*n/a*		
Aging:	*n/a*		
Ozone:	*n/a*		
Crack:	*n/a*		
Toxicity:	*n/a*		
Abrasion:	*n/a*		

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