SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 142 B/U

Double screened coaxial cable

Cable Design

	Material	Detail	Diameter
Centre conductor:	*StCuAg*	*Wire* (*0.95* mm)	*0.95* mm
Dielectric:	*PTFE*		*2.95* mm
1. Outer conductor:	*CuAg Braid*	*97*% coverage	*3.6* mm
2. Outer conductor:	*CuAg Braid*	*94*% coverage	*4.25* mm
Jacket:	*FEP*	*RAL 8015 - br*	*4.95* mm *+/-0.1*
Print:	*SUHNER SWITZERLAND RG 142 B/U 50 Ohm*		

Electrical Data

Impedance:	*50*	Ω *+/-2*
Max. operating frequency:	*6*	GHz
Capacitance :	*95*	pF / m
Velocity of signal propagation:	*70*	%
Signal delay:	*4.75*	ns / m
Min. screening effectiveness:	> *85*	*dB (up to 6 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:		*-65* °C…+ *165* °C	
Weight:		*6.4*	kg / 100 m
Min. bending radius :	*static*	*30*	*mm*
	repeated (for max. 50 bendings)	*50*	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 142 B/U* under article number *22510037*

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

Coefficients:
a= 0.3969 *b= 0.0676* f_{max}=. *6* $p_{at\ 1GHz}$ = *407*

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	***0.238***	***0.0725***	***743.1***
0.60	***0.348***	***0.1061***	***525.4***
0.90	***0.437***	***0.1332***	***429.0***
1.20	***0.516***	***0.1573***	***371.5***
1.50	***0.588***	***0.1792***	***332.3***
1.80	***0.654***	***0.1993***	***303.4***
2.10	***0.717***	***0.2185***	***280.9***
2.40	***0.777***	***0.2368***	***262.7***
2.70	***0.835***	***0.2545***	***247.7***
3.00	***0.890***	***0.2713***	***235.0***
3.30	***0.944***	***0.2877***	***224.0***
3.60	***0.996***	***0.3036***	***214.5***
3.90	***1.047***	***0.3191***	***206.1***
4.20	***1.097***	***0.3343***	***198.6***
4.50	***1.146***	***0.3493***	***191.9***
4.80	***1.194***	***0.3639***	***185.8***
5.10	***1.241***	***0.3782***	***180.2***
5.40	***1.287***	***0.3923***	***175.1***
5.70	***1.333***	***0.4063***	***170.5***
6.00	***1.378***	***0.4200***	***166.2***

Test (following tests have been passed successfully)
Flame propagation: *IEC 332-3*

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