SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG_213U

Single screened coaxial cable

Cable Design

	Material	Detail	Diameter	
Centre conductor:	*Copper*	*Strand-07*	*2.25 mm*	
Dielectric:	*PE (Polyethylene)*		*7.28 mm*	
1. Outer conductor:	*Copper Braid*	*96%*	*8.1 mm*	
Jacket:	*PVC (Polyvinylchloride)*	*RAL 9005 - bk*	*10.3 mm*	*+/- 0.1*
Print:	*SUHNER SWITZERLAND RG 213 /U 50 Ohm*			

Electrical Data

Impedance:		*50*	Ω *+/-2*
Max. operating frequency:		*1*	GHz
Capacitance :		*100.7*	pF / m
Velocity of signal propagation:		*66*	%
Signal delay:		*5.03*	ns / m
Min. screening effectiveness:	>	40	dB (up to 0.3 GHz)
Max. operating voltage:		*5*	kV_{rms} (at sea level)
Test voltage:		*10*	kV_{rms} (50 Hz/ 1min)
Insulation resistance:	>	*1*	x 10^6 MΩ/m

General Data

Temperature range:		*-40* °C... +85 °C	
Weight:		*15.3*	kg / 100 m
Min. bending radius :	static	*55*	mm
	repeated (for max. 50 bendings)	*100*	mm
	dynamic	*200*	mm

Suitable Connectors

Cable group *U29 / U28*

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

Notes

Issued: 28.7.2003 13:21

Document: DOC-0000177758

RF_Co_Ca_PDF

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

Coefficients:
a= *0.184* b= *0.0574* f_{max}=.*1* $p_{at\ 1GHz}$ = *416*

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
0.05	***0.044***	***0.0134***	***1'860.4***
0.10	***0.064***	***0.0195***	***1'315.5***
0.15	***0.080***	***0.0244***	***1'074.1***
0.20	***0.094***	***0.0286***	***930.2***
0.25	***0.106***	***0.0323***	***832.0***
0.30	***0.118***	***0.0360***	***759.5***
0.35	***0.129***	***0.0393***	***703.2***
0.40	***0.139***	***0.0424***	***657.8***
0.45	***0.149***	***0.0454***	***620.1***
0.50	***0.159***	***0.0485***	***588.3***
0.55	***0.168***	***0.0512***	***560.9***
0.60	***0.177***	***0.0539***	***537.1***
0.65	***0.186***	***0.0567***	***516.0***
0.70	***0.194***	***0.0591***	***497.2***
0.75	***0.202***	***0.0616***	***480.4***
0.80	***0.210***	***0.0640***	***465.1***
0.85	***0.218***	***0.0664***	***451.2***
0.90	***0.226***	***0.0689***	***438.5***
0.95	***0.234***	***0.0713***	***426.8***
1.00	***0.241***	***0.0735***	***416.0***

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