SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 400 /U-02

Double screened coaxial cable

Cable Design

	Material	Detail	Diameter
Centre conductor:	*CuAg*	*Strand-19* (*0.2* mm)	*1* mm
Dielectric:	*PTFE*		*2.95* mm
1. Outer conductor:	*CuAg Braid*	*97*% coverage	*3.6* mm
2. Outer conductor:	*CuAg Braid*	*94*% coverage	*4.2* mm
Jacket:	*FEP*	*RAL 8024 - br*	*5* mm *+/-0.1*
Print:	*SUHNER SWITZERLAND RG 400 /U-02 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:	>	*81*	*dB (up to 6 GHz)*
Max. operating voltage:		*1.5*	kV_{rms} (at sea level)
Test voltage:		*3*	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
	dynamic	*100*	mm

Suitable Connectors

Cable group *U11 / U10*

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

Notes

Order as *RG 400 /U-02* under article number *22511584*

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

Coefficients:
a= 0.41951 *b= 0.07755* f_{max}=. *6* $p_{at\ 1GHz}$ = *324*

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	***0.253***	***0.0771***	***591.5***
0.60	***0.371***	***0.1131***	***418.3***
0.90	***0.468***	***0.1426***	***341.5***
1.20	***0.553***	***0.1685***	***295.8***
1.50	***0.630***	***0.1920***	***264.5***
1.80	***0.702***	***0.2140***	***241.5***
2.10	***0.771***	***0.2350***	***223.6***
2.40	***0.836***	***0.2548***	***209.1***
2.70	***0.899***	***0.2740***	***197.2***
3.00	***0.959***	***0.2923***	***187.1***
3.30	***1.018***	***0.3103***	***178.4***
3.60	***1.075***	***0.3276***	***170.8***
3.90	***1.131***	***0.3447***	***164.1***
4.20	***1.185***	***0.3612***	***158.1***
4.50	***1.239***	***0.3776***	***152.7***
4.80	***1.291***	***0.3935***	***147.9***
5.10	***1.343***	***0.4093***	***143.5***
5.40	***1.394***	***0.4249***	***139.4***
5.70	***1.444***	***0.4401***	***135.7***
6.00	***1.493***	***0.4550***	***132.3***

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

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