



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 216 /U-01

Double screened coaxial cable - precision type

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuSn	Strand-07 (0.4 mm)	1.2 mm
Dielectric:	PE		7.25 mm
1. Outer conductor:	Cu Braid	95% coverage	8 mm
2. Outer conductor:	Cu Braid	93% coverage	8.7 mm
3. Outer conductor:	n/a n/a		
Jacket:	PVC2	RAL 9005 - bk	10.8 mm +/-0.1
Print:	SUHNER SWITZERLAND RG 216 /U-01 75 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:	75 Ω +/-1.5
Max. operating frequency:	2 GHz
Capacitance :	67.1 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 70 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:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	16.7 kg / 100 m
Min. bending radius :	static 55 mm
	repeated (for max. 50 bendings) 110 mm
	dynamic 220 mm

Suitable Connectors

Cable group U36 / U37
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **RG 216 /U-01** under article number **22511281**

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Matrix **Attenuation** [formula : $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula : $(p \cdot f^{0.5})$]

Coefficients:

$a = 0.2002$

$b = 0.0835$

$f_{\max} = 2$

$p_{\text{at } 1\text{GHz}} = 290$

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
0.10	0.072	0.0219	917.1
0.20	0.106	0.0323	648.5
0.30	0.135	0.0411	529.5
0.40	0.160	0.0488	458.5
0.50	0.183	0.0558	410.1
0.60	0.205	0.0625	374.4
0.70	0.226	0.0689	346.6
0.80	0.246	0.0750	324.2
0.90	0.265	0.0808	305.7
1.00	0.284	0.0866	290.0
1.10	0.302	0.0920	276.5
1.20	0.320	0.0975	264.7
1.30	0.337	0.1027	254.3
1.40	0.354	0.1079	245.1
1.50	0.370	0.1128	236.8
1.60	0.387	0.1180	229.3
1.70	0.403	0.1228	222.4
1.80	0.419	0.1277	216.2
1.90	0.435	0.1326	210.4
2.00	0.450	0.1372	205.1

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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