

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_196_A/U



Description

PTFE - 50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)		0.83 mm
Outer conductor	Copper, Silver plated	Braid, 96 %	1.33 mm
Jacket	PFA (Perfluoroalkoxy)	RAL 9010 - wh	1.83 mm +/- 0.1
Print	HUBER+SUHNER RG 196 A/U 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	1	GHz
Capacitance	97	pF/m
Velocity of signal propagation	69	%
Signal delay	4.84	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	> 42	dB (up to 1 GHz)
Max. operating voltage	0.5	kV _{rms} (at sea level)
Test voltage	1	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	0.92	kg/100 m
Min. bending radius	static	10 mm
	repeated (for max. 50 bendings)	18 mm
	dynamic	27 mm

Environmental Data

Temperature range	-80 °C... + 205 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-3
2002/95/EC (RoHS)	compliant

Ordering Information

Order as RG_196_A/U

Additional Information

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Cable group U1 1 mm / 50 Ohm

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_196_A/U



Rev.: I

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

Coefficients:

a=	1.4135	b=	0.2038	f _{max.} =	1	p _{at} 1GHz =	108
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.05		0.33		0.101		483
	0.10		0.47		0.143		342
	0.15		0.58		0.177		279
	0.20		0.67		0.204		241
	0.25		0.76		0.232		216
	0.30		0.84		0.256		197
	0.35		0.91		0.277		183
	0.40		0.98		0.299		171
	0.45		1.04		0.317		161
	0.50		1.10		0.335		153
	0.55		1.16		0.354		146
	0.60		1.22		0.372		139
	0.65		1.27		0.387		134
	0.70		1.33		0.405		129
	0.75		1.38		0.421		125
	0.80		1.43		0.436		121
	0.85		1.48		0.451		117
	0.90		1.52		0.463		114
	0.95		1.57		0.479		111
	1.00		1.62		0.494		108

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



HUBER+SUHNER AG
RF Industrial
9100 Herisau, Switzerland
 Phone +41 (0)71 353 41 11
 Fax +41 (0)71 353 45 90
 www.hubersuhner.com

HUBER+SUHNER – Excellence in Connectivity Solutions