## RG196, 50 Ohm, 1 GHz, 205°C, ø1.83 mm, PFA jacket

RG\_196\_A/U

## **Properties**

- · Mil standard RG cable
- · Excellent RF performance for precision applications
- · Suitable for use in application up to 1 GHz
- · Extended temperature range









Construction				
Component	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 mm	

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤1 GHz
Capacitance	97 pF/m
Velocity of signal propagation	69 %
Signal delay	4.84 ns/m
Screening effectiveness	42 dB at frequency 0.001 GHz 1GHz
Insulation resistance	100000000 <b>MΩ</b> *m
Operating Voltage (at sea level)	≤ 0.5 kVrms
Test voltage (50 Hz/1 min)	≤1 kVrms

Mechanical data	
Weight	approx. 9.2 g/m
Static bending radius	≥ 10 mm
Repeated bending radius	18 mm
Dynamic bending radius	< 27 mm

Environmental data	
Operation temperature	-80 °C 205 °C
Installation temperature	-20 °C 60°C
Flame propagation standard	IEC 60332-3



0.80

1.00

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Environmental data					
Fire characteristics		contains halogene	contains halogene		
		`			
Suitable connectors					
Cable group		U1	Uī		
		,			
Ordering information					
Item number Item desc		description	Available as assembly only		
22510049	RG_	S_196_A/U No			
a coefficient typical =	vation [ formula: (a*f^0.5 + b*f) ] ar	b coefficient typical =	0.2038		
fmax =	1.4135	P at 1 GHz =	108.0		
	1	. 30. 3.12			
Frequency	Nom. attenuation	Nom. attenuation	CW power		
GHz	(dB/m)	(dB/ft)	(W)		
	sea level 25°C ambient	sea level 25°C ambient	sea level 40°C ambient		
	temperature	temperature	temperature		
0.20	0.477		<u>'</u>		
	0.673	0.205	241		
0.40	0.673	0.205 0.297	·		
0.40 0.60			241		

0.435

0.493

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1.427

1.617



121

108