RG188, 50 Ohm, 3 GHz, 205°C, ø2.6 mm, PFA jacket

RG_188_A/U

Properties

- · Mil standard RG cable
- · Excellent RF performance for precision applications
- · Suitable for use in applications up to 3 GHz
- · Extended temperature range









Construction	onstruction		
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper + Silver plated	Strand-07	0.54 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 94%	2 mm
Jacket	PFA (Perfluoroalkoxy)	RAL 9010 - wh	2.6 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 3 GHz
Capacitance	97 pF/m
Velocity of signal propagation	69 %
Signal delay	4.86 ns/m
Screening effectiveness	39 dB at frequency 0.0001 GHz 1GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	246.05 Ω/km
Operating Voltage (at sea level)	≤ 0.85 kVrms
Test voltage (50 Hz/1 min)	≤ 1.7 kVrms

Mechanical data	anical data	
Weight	approx. 17 g/m	
Static bending radius	≥ 15 mm	
Repeated bending radius	26 mm	
Dynamic bending radius	< 39 mm	

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



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Fire characteristics	contains halogene	contains halogene	
Suitable connectors			
Cable group	U2		
Ordering information			
Item number	Item description	Available as assembly only	
22510046	RG_188_A/U	No	

Power Matrix					
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]					
a coefficient typical =	0.7501	b coefficient typical =	0.0884		
fmax =	3	P at 1 GHz =	180		
Frequency	Nom. attenuation	Nom. attenuation	CW power		
GHz	(dB/m)	(dB/ft)	(W)		
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature		
0.20	0.353	0.108	402		
0.40	0.510	0.155	285		
0.60	0.634	0.193	232		
0.80	0.742	0.226	201		
1.00	0.839	0.256	180		
1.20	0.928	0.283	164		
1.40	1.011	0.308	152		
1.60	1.090	0.332	142		
1.80	1.165	0.355	134		
2.00	1.238	0.377	127		
3.00	1.564	0.477	104		

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