

RG187, 75 Ohm, 1 GHz, 205°C, ø2.65 mm, PFA jacket

RG_187_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
- 75 Ohm characteristic Impedance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper + Silver plated	Strand-07	0.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 94%	2 mm
Jacket	PFA (Perfluoroalkoxy)	RAL 9010 - wh	2.65 mm +/- 0.1 mm

Electrical data	
Impedance	75 Ω +/- 3Ω
Operating frequency	≤ 1 GHz
Capacitance	63 pF/m
Velocity of signal propagation	69 %
Signal delay	4.83 ns/m
Screening effectiveness	41 dB at frequency 0.001 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1 kVrms
Test voltage (50 Hz/1 min)	≤ 2 kVrms

Mechanical data	
Weight	approx. 16 g/m
Static bending radius	≥ 15 mm
Repeated bending radius	26 mm
Dynamic bending radius	< 40 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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Environmental data	
Fire characteristics	contains halogene

Suitable connectors	
Cable group	U5

Ordering information		
Item number	Item description	Available as assembly only
22510045	RG_187_A/U	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.73	b coefficient typical =	0.1014
fmax =	1.0	P at 1 GHz =	110.0
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.347	0.106	246
0.40	0.502	0.153	174
0.60	0.626	0.191	142
0.80	0.734	0.224	123
1.00	0.831	0.253	110

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