

RG188, 50 Ohm, 3 GHz, 205°C, Ø2.6 mm, PFA jacket

RG_188_A/U

Properties

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



Construction			
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
Outer conductor resistance	30 Ω/km
Operating Voltage (at sea level)	≤ 0.85 kVrms
Test voltage (50 Hz/1 min)	≤ 1.7 kVrms

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

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Environmental data	
Operation temperature	-80 °C ... 205 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-3
Fire characteristics	contains halogene

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22510046	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	

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 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	0.353	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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