

RG59 alternative, 75 Ohm, 2 GHz, 85°C, Ø6.7 mm, PVC jacket

G_04133_D

Properties

- Custom version of RG_59
- Suitable for use in applications up to 2 GHz
- 75 Ohm characteristic Impedance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Wire, 92%	0.58 mm - 0.1 mm
Dielectric	PE (Polyethylene)		3.64 mm
Outer conductor	Copper	Braid, 92%	4.4 mm
Outer conductor	Copper	Braid, 91%	5 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	6.7 mm +/- 0.1 mm

Electrical data	
Impedance	75 Ω +/-1.5Ω
Operating frequency	≤ 2 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.07 ns/m
Screening effectiveness	80 dB at frequency 0.001 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 3 kVrms
Test voltage (50 Hz/1 min)	≤ 6 kVrms

Mechanical data	
Weight	approx. 81 g/m
Static bending radius	≥ 35 mm
Repeated bending radius	67 mm

Environmental data	
Operation temperature	-25 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	contains halogene

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Suitable connectors	
Cable group	U18

Ordering information		
Item number	Item description	Available as assembly only
22610079	G_04133_D	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 =	0.3308	b coefficient typical =	0.0667
fmax =	2	P at 1 GHz =	130
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
0.10	0.111	0.034	411
0.20	0.161	0.049	291
0.30	0.201	0.061	237
0.40	0.236	0.072	206
0.60	0.296	0.090	168
0.80	0.349	0.106	145
1.00	0.397	0.121	130
1.20	0.442	0.135	119
1.40	0.485	0.148	110
1.60	0.525	0.160	103
1.80	0.564	0.172	97
2.00	0.601	0.183	92

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