

RG58 alternative, 50 Ohm, 1 GHz, 85°C, ø5 mm, PVC jacket

G_03232

Properties

- Custom version of RG_58
- PVC jacket



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Strand-07, 95 %, RAL 9005 - bk	0.95 mm - 0.15 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper	Braid, 95%	3.6 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	5 mm +/- 0.15 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 1 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	39 dB at frequency 0.001 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	32.97 Ω/km
Operating Voltage (at sea level)	≤ 2.5 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 37 g/m
Static bending radius	≥ 25 mm
Repeated bending radius	50 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	U7

Ordering information		
Item number	Item description	Available as assembly only
22510128	G_03232	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 =	0.4027	b coefficient typical =	0.08
fmax =	1	P at 1 GHz =	110
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	0.135	0.041	348
0.20	0.196	0.060	246
0.30	0.245	0.075	201
0.40	0.287	0.087	174
0.60	0.360	0.110	142
0.80	0.424	0.129	123
1.00	0.483	0.147	110

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