

50 Ohm, 1 GHz, 85°C, ø7.4 mm, PVC jacket

G_05232

Properties

- Custom version of standard RG cable
- PVC jacket



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	1.5 mm - 0.15 mm
Dielectric	PE (Polyethylene)		4.8 mm
Outer conductor	Copper	Braid, 92%	5.6 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	7.4 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	40 dB at frequency 0.001 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	13.2 Ω/km
Operating Voltage (at sea level)	≤ 3.5 kVrms
Test voltage (50 Hz/1 min)	≤ 7 kVrms

Mechanical data	
Weight	approx. 77 g/m
Static bending radius	≥ 40 mm
Repeated bending radius	75 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	U19

Ordering information		
Item number	Item description	Available as assembly only
22510176	G_05232	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 =	0.2672	b coefficient typical =	0.0757
fmax =	1	P at 1 GHz =	211
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	0.092	0.028	667
0.20	0.135	0.041	472
0.30	0.169	0.052	385
0.40	0.199	0.061	334
0.60	0.252	0.077	272
0.80	0.300	0.091	236
1.00	0.343	0.105	211

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