

75 Ohm, 1 GHz, 85°C, ø2.8 mm, PVC jacket

G_02233-01

Properties

- Custom version of standard RG cable
- 75 Ohm characteristic Impedance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Wire, 96 %, RAL 9005 - bk	0.24 mm - 0.1 mm
Dielectric	PE (Polyethylene)		1.5 mm
Outer conductor	Copper	Braid, 96%	2 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	2.8 mm +/- 0.1 mm

Electrical data	
Impedance	75 Ω +/- 3Ω
Operating frequency	≤ 1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	38 dB at frequency 0.01 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1 kVrms
Test voltage (50 Hz/1 min)	≤ 2 kVrms
Noise level	10 mV

Mechanical data	
Weight	approx. 13 g/m
Static bending radius	≥ 15 mm
Repeated bending radius	28 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	U5

Ordering information		
Item number	Item description	Available as assembly only
22510114	G_02233-01	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 =	0.8588	b coefficient typical =	0.0352
fmax =	1.0	P at 1 GHz =	33.0
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
0.10	0.275	0.084	104
0.20	0.391	0.119	74
0.30	0.481	0.147	60
0.40	0.557	0.170	52
0.60	0.686	0.209	43
0.80	0.796	0.243	37
1.00	0.894	0.272	33

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