

50 Ohm, 3 GHz, 85°C, Ø1.8 mm, PVC jacket

G_01132-06

Properties

- Custom version of standard RG cable
- PVC jacket



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Wire, RAL 4005 - vio	0.3 mm - 0.05 mm
Dielectric	PE (Polyethylene)		1 mm
Outer conductor	Copper, Silver plated	Braid, 96%	1.4 mm
Jacket	PVC (Polyvinyl chloride)	RAL 4005 - vio	1.8 mm +/- 0.05 mm

Electrical data	
Impedance	50 Ω +/- 3Ω
Operating frequency	≤ 3 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	38 dB at frequency 0.001 GHz ... 3GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1 kVrms
Test voltage (50 Hz/1 min)	≤ 2 kVrms
Noise level	100 mV

Mechanical data	
Weight	approx. 6 g/m
Static bending radius	≥ 9 mm
Repeated bending radius	20 mm
Tensile strength	68 N

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

Suitable connectors	
Cable group	U1

Ordering information		
Item number	Item description	Available as assembly only
22511913	G_01132-06	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 =	1.2694	b coefficient typical =	0.1746
fmax =	3	P at 1 GHz =	22
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	0.419	0.128	70
0.20	0.603	0.184	49
0.30	0.748	0.228	40
0.40	0.873	0.266	35
0.60	1.088	0.332	28
0.80	1.275	0.389	25
1.00	1.444	0.440	22
1.20	1.600	0.488	20
1.40	1.746	0.532	19
1.60	1.885	0.575	17
1.80	2.017	0.615	16
2.00	2.144	0.654	16
2.50	2.444	0.745	14
3.00	2.722	0.830	13

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