

75 Ohm, 2 GHz, 85°C, ø5.35 mm, PUR jacket

G_03213_D

Properties

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Strand-07, 94 %, RAL 9005 - bk	0.49 mm - 0.15 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 94%	3.6 mm
Outer conductor	Copper, Tin plated	Braid, 93%	4.2 mm
Jacket	PUR (Polyurethane)	RAL 9005 - bk	5.35 mm +/- 0.15 mm

Electrical data	
Impedance	75 Ω +/- 3Ω
Operating frequency	≤ 2 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	77 dB at frequency 0.001 GHz ... 2GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 2.5 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 50 g/m
Static bending radius	≥ 25 mm
Repeated bending radius	53 mm

Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60°C
Fire characteristics	free of halogenes, acc. standard IEC 60754

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Suitable connectors	
Cable group	U14

Ordering information		
Item number	Item description	Available as assembly only
22510954	G_03213_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 =	0.4558	b coefficient typical =	0.0532
fmax =	2.0	P at 1 GHz =	82.0
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	0.149	0.045	259
0.20	0.214	0.065	183
0.30	0.266	0.081	150
0.40	0.310	0.094	130
0.60	0.385	0.117	106
0.80	0.450	0.137	92
1.00	0.509	0.155	82
1.20	0.563	0.172	75
1.40	0.614	0.187	69
1.60	0.662	0.202	65
1.80	0.707	0.215	61
2.00	0.751	0.229	58

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