

RG223 LSFH, 50 Ohm, 6 GHz, 85°C, ø5.4 mm, LSFH jacket

G_03262_D-01

Properties

- Custom version of standard RG cable
- Low smoke



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm - 0.1 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 94%	3.6 mm
Outer conductor	Copper, Tin plated	Braid, 93%	4.25 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	5.4 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 6 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	73 dB at frequency 0.001 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	30.8 Ω/km
Operating Voltage (at sea level)	≤ 2.5 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 55 g/m
Static bending radius	≥ 27 mm
Repeated bending radius	54 mm

Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-1

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Environmental data	
Fire characteristics	free of halogenes, acc. standard IEC 60754

Suitable connectors	
Cable group	U9

Ordering information		
Item number	Item description	Available as assembly only
22511782	G_03262_D-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 =	0.4431	b coefficient typical =	0.0815
fmax =	6	P at 1 GHz =	100
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	0.148	0.045	316
0.20	0.214	0.065	224
0.30	0.267	0.081	183
0.40	0.313	0.095	158
0.60	0.392	0.120	129
0.80	0.462	0.141	112
1.00	0.525	0.160	100
1.20	0.583	0.178	91
1.40	0.638	0.195	85
1.60	0.691	0.211	79
1.80	0.741	0.226	75
2.00	0.790	0.241	71
2.50	0.904	0.276	63
3.00	1.012	0.308	58
3.50	1.114	0.340	53
4.00	1.212	0.369	50
4.50	1.307	0.398	47
5.00	1.398	0.426	45
5.50	1.487	0.453	43
6.00	1.574	0.480	41

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