

RG59 LSFH, 75 Ohm, 1 GHz, 85°C, ø6.1 mm, LSFH jacket

G_04263-03

Properties

- Custom version of standard RG cable
- Low smoke



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Wire	0.58 mm - 0.15 mm
Dielectric	PE (Polyethylene)		3.64 mm
Outer conductor	Copper	Braid, 92%	4.5 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	6.1 mm +/- 0.15 mm

Electrical data	
Impedance	75 Ω +/-1.5Ω
Operating frequency	≤ 1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.07 ns/m
Screening effectiveness	40 dB at frequency 0.001 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	152 Ω/km
Operating Voltage (at sea level)	≤ 3 kVrms
Test voltage (50 Hz/1 min)	≤ 6 kVrms

Mechanical data	
Weight	approx. 52 g/m
Static bending radius	≥ 32 mm
Repeated bending radius	65 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	U16

Ordering information		
Item number	Item description	Available as assembly only
22511867	G_04263-03	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 =	0.3314	b coefficient typical =	0.0969
fmax =	1	P at 1 GHz =	140
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	0.114	0.035	443
0.20	0.168	0.051	313
0.30	0.211	0.064	256
0.40	0.248	0.076	221
0.60	0.315	0.096	181
0.80	0.374	0.114	157
1.00	0.428	0.131	140

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