DATA SHEET

RG59D/RD59 LSFH, 75 Ohm, 2 GHz, 85°C, ø6.7 mm, RADOX® jacket

G_04273_D-02

Properties

- Custom version of RG_59
- Low smoke
- - ozone, UV and weathering resistance
- 75 Ohm characteristic Impedance

Construction			
Component	**Material**	**Detail**	**Diameter**
Centre conductor	Copper	Strand-07, 93%	0.64 mm - 0.15 mm
Dielectric	PE (Polyethylene)		3.75 mm
Outer conductor	Copper, Tin plated	Braid, 93%	4.35 mm
Outer conductor	Copper, Tin plated	Braid, 92%	5 mm
Jacket	RADOX	RAL 9005 - bk	6.7 mm +/- 0.15 mm

Electrical data	
Impedance	75 Ω +/-1.5Ω
Operating frequency	≤ 2 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.07 ns/m
Screening effectiveness	81 dB at frequency 0.01 GHz ... 6GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 3 kVrms
Test voltage (50 Hz/1 min)	≤ 6 kVrms

Mechanical data	
Weight	approx. 78 g/m
Static bending radius	≥ 35 mm
Repeated bending radius	67 mm

Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60°C
Fire characteristics	free of halogenes

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Suitable connectors	
Cable group	U18

Ordering information		
Item number	Item description	Available as assembly only
22512183	G_04273_D-02	No

Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	**0.4191**	b coefficient typical =	**0.0344**
fmax =	**2.0**	P at 1 GHz =	**134.0**
Frequency	**Nom. attenuation**	**Nom. attenuation**	**CW power**
GHz	**(dB/m)**	**(dB/ft)**	**(W)**
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.136	0.041	424
0.20	0.194	0.059	300
0.30	0.240	0.073	245
0.40	0.279	0.085	212
0.60	0.345	0.105	173
0.80	0.402	0.123	150
1.00	0.453	0.138	134
1.20	0.500	0.152	122
1.40	0.544	0.166	113
1.60	0.585	0.178	106
1.80	0.624	0.190	100
2.00	0.661	0.201	95

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