

RG174D LSFH, 50 Ohm, 6 GHz, 105°C, ø3.2 mm, RADOX® jacket

GX_02272_D-02

Properties

- Halogen free alternative to RG_174
- Low smoke
- Ozone, UV and weathering resistance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07, 96 %, RAL 9005 - bk	0.48 mm - 0.1 mm
Dielectric	PEX (Polyethylene cross-linked)		1.5 mm
Outer conductor	Copper, Tin plated	Braid, 96%	2 mm
Outer conductor	Copper, Tin plated	Braid, 93%	2.5 mm
Jacket	RADOX		3.2 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 6 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.02 ns/m
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1 kVrms
Test voltage (50 Hz/1 min)	≤ 2 kVrms

Mechanical data	
Weight	approx. 21 g/m
Static bending radius	≥ 15 mm
Repeated bending radius	32 mm

Environmental data	
Operation temperature	-40 °C ... 105 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-1
	EN 60332-1-2
	UL 1581 § 1100

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Environmental data			
Fire characteristics		free of halogenes, acc. standard IEC 60754	
Suitable connectors			
Cable group		U4	
Ordering information			
Item number		Item description	Available as assembly only
22511671		GX_02272_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 =	0.745	b coefficient typical =	0.246
fmax =	6.0	P at 1 GHz =	92.0
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	0.260	0.079	291
0.20	0.382	0.116	206
0.30	0.482	0.147	168
0.40	0.570	0.174	145
0.60	0.725	0.221	119
0.80	0.863	0.263	103
1.00	0.991	0.302	92
1.20	1.111	0.339	84
1.40	1.226	0.374	78
1.60	1.336	0.407	73
1.80	1.442	0.440	69
2.00	1.546	0.471	65
2.50	1.793	0.547	58
3.00	2.028	0.618	53
3.50	2.255	0.687	49
4.00	2.474	0.754	46
4.50	2.687	0.819	43
5.00	2.896	0.883	41
5.50	3.100	0.945	39
6.00	3.301	1.006	38

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