

RG174 LSFH, 50 Ohm, 2 GHz, 105°C, RADOX® jacket

GX_02272

Properties

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.49 mm - 0.1 mm
Dielectric	PEX (Polyethylene cross-linked)		1.5 mm
Outer conductor	Copper, Silver plated	Braid, 96%	2 mm
Jacket	RADOX	RAL 9005 - bk	2.8 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 2 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.12 ns/m
Screening effectiveness	41 dB at frequency 0.001 GHz ... 2GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.5 kVrms
Test voltage (50 Hz/1 min)	≤ 3 kVrms

Mechanical data	
Weight	approx. 14.5 g/m
Static bending radius	≥ 15 mm
Repeated bending radius	28 mm

Environmental data	
Operation temperature	-40 °C ... 105 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	free of halogenes, acc. standard IEC 60754

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Suitable connectors	
Cable group	U2

Ordering information		
Item number	Item description	Available as assembly only
22510833	GX_02272	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 =	0.8784	b coefficient typical =	0.1003
fmax =	2.0	P at 1 GHz =	90.0
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	0.288	0.088	285
0.20	0.413	0.126	201
0.30	0.511	0.156	164
0.40	0.596	0.182	142
0.60	0.741	0.226	116
0.80	0.866	0.264	101
1.00	0.979	0.298	90
1.20	1.083	0.330	82
1.40	1.180	0.360	76
1.60	1.272	0.388	71
1.80	1.359	0.414	67
2.00	1.443	0.440	64

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