

RG11 LSFH, 75 Ohm, 1 GHz, 105°C, ø10.3 mm, RADOX® jacket

GX_07273

Properties

- Halogen free alternative to RG_11
- Low smoke
- Ozone, UV and weathering resistance
- 75 Ohm characteristic Impedance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	1.2 mm - 0.15 mm
Dielectric	PEX (Polyethylene cross-linked)		7.25 mm
Outer conductor	Copper, Silver plated	Braid, 95%	8.1 mm
Jacket	RADOX	RAL 9005 - bk	10.3 mm +/- 0.15 mm

Electrical data	
Impedance	75 Ω +/- 3Ω
Operating frequency	≤ 1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 5 kVrms
Test voltage (50 Hz/1 min)	≤ 10 kVrms

Mechanical data	
Weight	approx. 149 g/m
Static bending radius	≥ 55 mm
Repeated bending radius	100 mm
Dynamic bending radius	< 200 mm

Environmental data	
Operation temperature	-40 °C ... 105 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-1
Fire characteristics	free of halogenes, acc. standard IEC 60754

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Suitable connectors	
Cable group	U34

Ordering information		
Item number	Item description	Available as assembly only
22510641	GX_07273	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 =	0.2066	b coefficient typical =	0.0344
fmax =	1.0	P at 1 GHz =	360.0
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	0.069	0.021	1138
0.20	0.099	0.030	805
0.30	0.123	0.037	657
0.40	0.144	0.044	569
0.60	0.181	0.055	465
0.80	0.212	0.065	402
1.00	0.241	0.073	360

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