

75 Ohm, 1 GHz, 105°C, Ø6.1 mm, RADOX® jacket

GX_04273

Properties

- Halogen free alternative to standard RG cable
- Low smoke
- - ozone, UV and weathering resistance
- 75 Ohm characteristic Impedance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.64 mm - 0.2 mm
Dielectric	PEX (Polyethylene cross-linked)		3.75 mm
Outer conductor	Copper, Silver plated	Braid, 95%	4.45 mm
Jacket	RADOX	RAL 9005 - bk	6.1 mm +/- 0.2 mm

Electrical data	
Impedance	75 Ω +/-1.5Ω
Operating frequency	≤ 1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.06 ns/m
Screening effectiveness	40 dB at frequency 0.01 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 3 kVrms
Test voltage (50 Hz/1 min)	≤ 6 kVrms

Mechanical data	
Weight	approx. 57 g/m
Static bending radius	≥ 35 mm
Repeated bending radius	61 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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Additional Information	
Elimination candidate Alternative type: RADOX_RF_59	

Suitable connectors	
Cable group	U16

Ordering information		
Item number	Item description	Available as assembly only
22510458	GX_04273	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 =	0.3724	b coefficient typical =	0.0956
fmax =	1.0	P at 1 GHz =	232.0
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	0.127	0.039	734
0.20	0.186	0.057	519
0.30	0.233	0.071	424
0.40	0.274	0.084	367
0.60	0.346	0.105	300
0.80	0.410	0.125	259
1.00	0.468	0.143	232

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