DATA SHEET

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

75 Ohm, 1 GHz, 105°C, ø6.1 mm, RADOX® jacket

GX_04273

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

DOCUMENT PIM-P1050 / Date of publication: 08.08.2024 / uncontrolled copy