

75 Ohm, 1 GHz, 105 °C, ø3.7 mm, RADOX® jacket

GX_03173-01

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	Steel, Copper plated	Strand-07	0.42 mm - 0.1 mm
Dielectric	PEX (Polyethylene cross-linked)		2.45 mm
Outer conductor	Copper, Tin plated	Braid, 91%	2.9 mm
Jacket	RADOX	RAL 9005 - bk	3.7 mm +/- 0.1 mm

Electrical data	
Impedance	75 Ω +/- 3Ω
Operating frequency	≤ 1 GHz
Capacitance	69 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	40 dB at frequency 0.01 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 2 kVrms
Test voltage (50 Hz/1 min)	≤ 4 kVrms

Mechanical data	
Weight	approx. 21 g/m
Static bending radius	≥ 18 mm
Repeated bending radius	37 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	U6
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Ordering information

Item number	Item description	Available as assembly only
22511581	GX_03173-01	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 =	0.6003	b coefficient typical =	0.0549
fmax =	1.0	P at 1 GHz =	170.0
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	0.195	0.059	538
0.20	0.279	0.085	380
0.30	0.345	0.105	310
0.40	0.402	0.123	269
0.60	0.498	0.152	219
0.80	0.581	0.177	190
1.00	0.655	0.200	170

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