

Coaxial Cable GX_07273

Description

Single screened coaxial cable



Technical Data

Construction

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

Print: HUBER+SUHNER GX 07273 75 OHM (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MQm
Max. operating voltage	≤ 5 kV _{rms} (at sea level)
Test voltage	10 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	14.9 kg/100 m	
Min. bending radius	static	55 mm
	repeated (for ≤ 50 bendings)	100 mm
	dynamic	200 mm

Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, ,
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as GX_07273

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group U34 7 mm / 75 Ohm

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Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.2066

b = 0.0344

f_{max} = 1

P at 1GHz = 360

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
0.05	0.05	0.015	1610
0.1	0.07	0.021	1138
0.15	0.09	0.026	930
0.2	0.1	0.030	805
0.25	0.11	0.034	720
0.3	0.12	0.038	657
0.35	0.13	0.041	609
0.4	0.14	0.044	569
0.45	0.15	0.047	537
0.5	0.16	0.050	509
0.55	0.17	0.052	485
0.6	0.18	0.055	465
0.65	0.19	0.058	447
0.7	0.2	0.060	430
0.75	0.2	0.062	416
0.8	0.21	0.065	402
0.85	0.22	0.067	390
0.9	0.23	0.069	379
0.95	0.23	0.071	369
1.0	0.24	0.073	360