

Coaxial Cable GX_07272_D

Description

PE cross-linked - 50 Ohm - double screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	2.25 mm
Dielectric	PEX (Polyethylene cross-linked)		7.28 mm
Outer conductor	Copper, Silver plated	Braid, 93%	8 mm
Outer conductor	Copper, Silver plated	Braid, 95 %	8.7 mm
Jacket	RADOX	RAL 9005 - bk	10.8 mm +/- 0.15

Print: HUBER+SUHNER GX 07272 D 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	≥ 81 dB (up to 6 GHz)
Max. operating voltage	≤ 5 kV _{rms} (at sea level)
Test voltage	10 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	19.8 kg/100 m
Min. bending radius	static 60 mm
	repeated (for ≤ 50 bendings) 108 mm

Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1,
Halogen test	IEC 60754
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as GX_07272_D

Remarks

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

Suitable Connectors

Cable group U32 7 mm / 50 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 = 0.2203

b = 0.0874

f_{max} = 6

P at 1GHz = 560

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
0,3	0,15	0,045	1022
0,6	0,22	0,068	723
0,9	0,29	0,088	590
1,2	0,35	0,106	511
1,5	0,4	0,122	457
1,8	0,45	0,138	417
2,1	0,5	0,153	386
2,4	0,55	0,168	361
2,7	0,6	0,182	341
3,0	0,64	0,196	323
3,3	0,69	0,210	308
3,6	0,73	0,223	295
3,9	0,78	0,236	284
4,2	0,82	0,249	273
4,5	0,86	0,262	264
4,8	0,9	0,275	256
5,1	0,94	0,287	248
5,4	0,98	0,300	241
5,7	1,02	0,312	235
6,0	1,06	0,324	229