

HUBER+SUHNER® DATA SHEET

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
Max. operating frequency	6	GHz
Capacitance	101	pF/m
Velocity of signal propagation	66	%
Signal delay	5.03	ns/m
Insulation resistance	$\geq 1 \times$	$10^8 \text{ M}\Omega\text{m}$
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 max. 50 bendings)	108 mm

Environmental Data

Temperature range	-40 °C... + 105 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1
Halogen free	IEC 60754
2002/95/EC (RoHS)	compliant

Ordering Information

Order as GX_07272_D

Additional Information

Remarks

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

Cable group U32 7 mm / 50 Ohm

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Rev.: I

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

Coefficients:

a=	0.2203	b=	0.0874	f _{max.} =	6	p _{at} 1GHz =	560
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.3		0.15		0.046		1022
	0.6		0.22		0.067		723
	0.9		0.29		0.088		590
	1.2		0.35		0.107		511
	1.5		0.40		0.122		457
	1.8		0.45		0.137		417
	2.1		0.50		0.152		386
	2.4		0.55		0.168		361
	2.7		0.60		0.183		341
	3.0		0.64		0.195		323
	3.3		0.69		0.210		308
	3.6		0.73		0.222		295
	3.9		0.78		0.238		284
	4.2		0.82		0.250		273
	4.5		0.86		0.262		264
	4.8		0.90		0.274		256
	5.1		0.94		0.286		248
	5.4		0.98		0.299		241
	5.7		1.02		0.311		235
	6.0		1.06		0.323		229

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

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