

HUBER+SUHNER® DATA SHEET

Coaxial Cable: GX_07272



Description

PE cross-linked - 50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	2.25 mm
Dielectric	PEX (Polyethylene cross-linked)		7.25 mm
Outer conductor	Copper, Silver plated	Braid, 95 %	8.15 mm
Jacket	RADOX	RAL 9005 - bk	10.3 mm +/- 0.15
Print	HUBER+SUHNER GX 07272 50 Ohm (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	2 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	> 41 dB (up to 2 GHz)
Max. operating voltage	5 kV _{rms} (at sea level)
Test voltage	10 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	16.1 kg/100 m
Min. bending radius	static 50 mm
	repeated (for max. 50 bendings) 100 mm
	dynamic 150 mm

Environmental Data

Temperature range	-40 °C... + 105 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1, EN 60332-1-2, IEC 60332-3-25, EN 50266-2-5
Smoke density	EN 61034-2
Halogen free	IEC 60754
2002/95/EC (RoHS)	compliant

Ordering Information

Order as GX_07272

Additional Information

DIN 5510-2 and EN 45545 compliant

Remarks

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

Cable group U29 7 mm / 50 Ohm

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

Coefficients:

a=	0.161	b=	0.0996	f _{max} =	2	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
	0.1		0.06		0.018		1771
	0.2		0.09		0.027		1252
	0.3		0.12		0.037		1022
	0.4		0.14		0.043		885
	0.5		0.16		0.049		792
	0.6		0.18		0.055		723
	0.7		0.20		0.061		669
	0.8		0.22		0.067		626
	0.9		0.24		0.073		590
	1.0		0.26		0.079		560
	1.1		0.28		0.085		534
	1.2		0.30		0.091		511
	1.3		0.31		0.094		491
	1.4		0.33		0.101		473
	1.5		0.35		0.107		457
	1.6		0.36		0.110		443
	1.7		0.38		0.116		430
	1.8		0.40		0.122		417
	1.9		0.41		0.125		406
	2.0		0.43		0.131		396

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

WAIVER!

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