

HUBER+SUHNER® DATA SHEET

Coaxial Cable: GX_07272_D-04



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)		7.25 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	8 mm
Outer conductor	Copper, Silver plated	Braid, 95 %	8.7 mm
Jacket	RADOX (GKW-S)	RAL 9005 - bk	10.8 mm +/- 0.1
Print	HUBER+SUHNER GX 07272 D-04 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	$\geq 1 \times 10^8$	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	20.2	kg/100 m
Min. bending radius	static	50 mm
	repeated (for max. 50 bendings)	110 mm

Environmental Data

Temperature range	-20 °C... + 60 °C	-40 °C... + 105 °C
Installation temperature		
Flammability	IEC 60332-1, EN 60332-1-2, NF C 32-070 C2	
Smoke density	EN 61034-2	
Halogen free	IEC 60754	
Toxic fume	NF X 70-100	
2002/95/EC (RoHS)	compliant	

Ordering Information

Order as GX_07272_D-04

Additional Information

Remarks

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

Suitable Connectors

Cable group	crimped (U32)
	clamped (U33)
	soldered —

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Rev.: N

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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