

HUBER+SUHNER® DATA SHEET

Coaxial Cable: GX_03272



Description

PE cross-linked - 50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.94 mm
Dielectric	PEX (Polyethylene cross-linked)		2.95 mm
Outer conductor	Copper, Silver plated	Braid, 96 %	3.6 mm
Jacket	RADOX	RAL 9005 - bk	4.95 mm +/- 0.15
Print	HUBER+SUHNER GX 03272 50 Ohm (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	3 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	2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	4 kg/100 m
Min. bending radius	static 25 mm
	repeated (for max. 50 bendings) 50 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_03272
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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 (U7)
	clamped (U7)
	soldered —

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Rev.: J



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

Coefficients:

a=	0.4003	b=	0.1637	f _{max} =	3	p _{at} 1GHz =	205
	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
	0.2		0.21		0.064		458
	0.3		0.27		0.082		374
	0.5		0.36		0.110		290
	0.6		0.41		0.125		265
	0.8		0.49		0.149		229
	0.9		0.53		0.162		216
	1.1		0.60		0.183		195
	1.2		0.63		0.192		187
	1.4		0.70		0.213		173
	1.5		0.74		0.226		167
	1.7		0.80		0.244		157
	1.8		0.83		0.253		153
	2.0		0.89		0.271		145
	2.1		0.92		0.280		141
	2.3		0.98		0.299		135
	2.4		1.01		0.308		132
	2.6		1.07		0.326		127
	2.7		1.10		0.335		125
	2.9		1.16		0.354		120
	3.0		1.18		0.360		118

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

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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