

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: GX\_03272-04



### 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, Tin plated	Braid, 96 %	3.6 mm
Jacket	RADOX (GKW-S)	RAL 9005 - bk	4.95 mm +/- 0.1
Print	HUBER+SUHNER GX 03272-04 50 Ohm (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 2
Max. operating frequency	2	GHz
Capacitance	101	pF/m
Velocity of signal propagation	66	%
Signal delay	5.03	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M $\Omega$ m
Min. screening effectiveness	>4.0	dB (up to 2 GHz)
Max. operating voltage	2.5	kV <sub>rms</sub> (at sea level)
Test voltage	5	kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	4.04	kg/100 m
Min. bending radius	static	25 mm
	repeated (for max. 50 bendings)	50 mm
	dynamic	100 mm

#### Environmental Data

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

#### Ordering Information

Order as GX\_03272-04

#### 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 (U7)
	clamped (U7)
	soldered —

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Rev.: P

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

Coefficients:

a=	0.4617	b=	0.2295	f <sub>max</sub> =	2	p <sub>at</sub> 1GHz =	130
	<b>Frequency</b>		<b>Nom. attenuation</b>		<b>Nom. attenuation</b>		<b>Max. CW power</b>
	<b>(GHz)</b>		<b>(dB / m)</b>		<b>(dB / ft)</b>		<b>(watt)</b>
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.1		0.17		0.052		411
	0.2		0.25		0.076		291
	0.3		0.32		0.098		237
	0.4		0.38		0.116		206
	0.5		0.44		0.134		184
	0.6		0.50		0.152		168
	0.7		0.55		0.168		155
	0.8		0.60		0.183		145
	0.9		0.64		0.195		137
	1.0		0.69		0.210		130
	1.1		0.74		0.226		124
	1.2		0.78		0.238		119
	1.3		0.82		0.250		114
	1.4		0.87		0.265		110
	1.5		0.91		0.277		106
	1.6		0.95		0.290		103
	1.7		0.99		0.302		100
	1.8		1.03		0.314		97
	1.9		1.07		0.326		94
	2.0		1.11		0.338		92

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

**WAIVER!**

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