

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: GX\_03272\_D-06

Rev.: J



### Description

PE cross-linked - 50 Ohm - double screen

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.88 mm
Dielectric	PEX (Polyethylene cross-linked)		2.95 mm
Outer conductor	Copper, Silver plated	Braid, 96 %	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	4.2 mm
Jacket	RADOX	RAL 9005 - bk	5.4 mm +/- 0.1
Print	HUBER+SUHNER GX 03272 D-06 50 Ohm (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 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 $\Omega$ m
Min. screening effectiveness	>80	dB (up to 6 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	5.5	kg/100 m
Min. bending radius	static	30 mm
	repeated (for max. 50 bendings)	54 mm

#### Environmental Data

Temperature range	-20 °C... + 60 °C	-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\_D-06

#### 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 (U9)
	clamped (U10)
	soldered —

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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=	0.3952	b=	0.0779	f <sub>max.</sub> =	6	p <sub>at</sub> 1GHz =	205
	<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
	0.3		0.24		0.073		374
	0.6		0.35		0.107		265
	0.9		0.45		0.137		216
	1.2		0.53		0.162		187
	1.5		0.60		0.183		167
	1.8		0.67		0.204		153
	2.1		0.74		0.226		141
	2.4		0.80		0.244		132
	2.7		0.86		0.262		125
	3.0		0.92		0.280		118
	3.3		0.97		0.296		113
	3.6		1.03		0.314		108
	3.9		1.08		0.329		104
	4.2		1.14		0.347		100
	4.5		1.19		0.363		97
	4.8		1.24		0.378		94
	5.1		1.29		0.393		91
	5.4		1.34		0.408		88
	5.7		1.39		0.424		86
	6.0		1.44		0.439		84

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

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