

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: GX\_04273



### Description

PE cross-linked - 75 Ohm - single screen - precision type

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.64 mm
Dielectric	PEX (Polyethylene cross-linked)		3.75 mm
Outer conductor	Copper, Silver plated	Braid, 95 %	4.45 mm
Jacket	RADOX	RAL 9005 - bk	6.1 mm +/- 0.1
Print	HUBER+SUHNER GX 04273 75 Ohm (PA no.)		

#### Electrical Data

Impedance	75 $\Omega$ +/- 1.5
Max. operating frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.06 ns/m
Insulation resistance	$\geq 1 \times 10^8 \text{ M}\Omega\text{m}$
Min. screening effectiveness	>40 dB (up to 1 GHz)
Max. operating voltage	3 kV <sub>rms</sub> (at sea level)
Test voltage	6 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	5.7 kg/100 m
Min. bending radius	static 35 mm
	repeated (for max. 50 bendings) 61 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\_04273

#### Additional Information

##### Remarks

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

**Cable group** U16 4 mm / 75 Ohm

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Rev.: H

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

Coefficients:

a=	0.3724	b=	0.0956	f <sub>max</sub> =	1	p <sub>at</sub> 1GHz =	232
	<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
	0.05		0.09		0.027		1038
	0.10		0.13		0.040		734
	0.15		0.16		0.049		599
	0.20		0.19		0.058		519
	0.25		0.21		0.064		464
	0.30		0.23		0.070		424
	0.35		0.25		0.076		392
	0.40		0.27		0.082		367
	0.45		0.29		0.088		346
	0.50		0.31		0.094		328
	0.55		0.33		0.101		313
	0.60		0.35		0.107		300
	0.65		0.36		0.110		288
	0.70		0.38		0.116		277
	0.75		0.39		0.119		268
	0.80		0.41		0.125		259
	0.85		0.42		0.128		252
	0.90		0.44		0.134		245
	0.95		0.45		0.137		238
	1.00		0.47		0.143		232

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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