

## 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 Ω +/- 1.5
Operating Frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.06 ns/m
Insulation resistance	≥ 1 x 10 <sup>8</sup> MQm
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 ≤ 50 bendings)	61 mm

#### Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, ,
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

### Additional Information

#### Ordering Information

Order as GX\_04273

#### Remarks

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

#### Suitable Connectors

Cable group U16 4 mm / 75 Ohm

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

Coefficients:

a = 0.3724

b = 0.0956

f<sub>max</sub> = 1

P at 1GHz = 232

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
0.05	0.09	0.027	1038
0.1	0.13	0.039	734
0.15	0.16	0.048	599
0.2	0.19	0.057	519
0.25	0.21	0.064	464
0.3	0.23	0.071	424
0.35	0.25	0.077	392
0.4	0.27	0.083	367
0.45	0.29	0.089	346
0.5	0.31	0.095	328
0.55	0.33	0.100	313
0.6	0.35	0.105	300
0.65	0.36	0.110	288
0.7	0.38	0.115	277
0.75	0.39	0.120	268
0.8	0.41	0.125	259
0.85	0.42	0.129	252
0.9	0.44	0.134	245
0.95	0.45	0.138	238
1.0	0.47	0.143	232