

## Coaxial Cable GX\_02272

### Description

PE cross-linked - 50 Ohm - single screen



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.49 mm
Dielectric	PEX (Polyethylene cross-linked)		1.5 mm
Outer conductor	Copper, Silver plated	Braid, 96%	2 mm
Jacket	RADOX	RAL 9005 - bk	2.8 mm +/- 0.1

Print: HUBER+SUHNER GX 02272 50 Ohm (PA No.)

#### Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	2 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.12 ns/m
Insulation resistance	≥ 1 x 10 <sup>8</sup> MQm
Min. screening effectiveness	≥ 41 dB (up to 2 GHz)
Max. operating voltage	≤ 1.5 kV <sub>rms</sub> (at sea level)
Test voltage	3 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	1.45 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings)
	15 mm 28 mm

#### Environmental Data

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

### Additional Information

#### Ordering Information

Order as GX\_02272

#### Remarks

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

#### Suitable Connectors

Cable group U2 2 mm / 50 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 = 0.8784

b = 0.1003

$f_{max} = 2$

P at 1GHz = 90

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
0.1	0.29	0.088	285
0.2	0.41	0.126	201
0.3	0.51	0.156	164
0.4	0.6	0.182	142
0.5	0.67	0.205	127
0.6	0.74	0.226	116
0.7	0.81	0.245	108
0.8	0.87	0.264	101
0.9	0.92	0.281	95
1.0	0.98	0.298	90
1.1	1.03	0.314	86
1.2	1.08	0.330	82
1.3	1.13	0.345	79
1.4	1.18	0.360	76
1.5	1.23	0.374	73
1.6	1.27	0.388	71
1.7	1.32	0.401	69
1.8	1.36	0.414	67
1.9	1.4	0.427	65
2.0	1.44	0.440	64