

## Coaxial Cable GX\_02272\_D-02

### Description

PE cross-linked - 50 Ohm - double screen



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	0.48 mm
Dielectric	PEX (Polyethylene cross-linked)		1.5 mm
Outer conductor	Copper, Tin plated	Braid, 96%	2 mm
Outer conductor	Copper, Tin plated	Braid, 93 %	2.5 mm
Jacket	RADOX	RAL 9005 - bk	3.2 mm +/- 0.1

Print: HUBER+SUHNER GX 02272 D-02 50 Ohm (PA No.)

#### Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.02 ns/m
Insulation resistance	≥ 1 x 10 <sup>8</sup> MΩm
Max. operating voltage	≤ 1 kV <sub>rms</sub> (at sea level)
Test voltage	2 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	2.1 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings)
	15 mm 32 mm

#### Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, EN 60332-1-2, UL 1581 § 1100
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

### Additional Information

#### Ordering Information

Order as GX\_02272\_D-02

#### Remarks

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

#### Suitable Connectors

Cable group U4 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 = 0.745

b = 0.246

$f_{\max} = 6$

P at 1GHz = 92

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
0,3	0,48	0,147	168
0,6	0,72	0,221	119
0,9	0,93	0,283	97
1,2	1,11	0,339	84
1,5	1,28	0,391	75
1,8	1,44	0,440	69
2,1	1,6	0,487	63
2,4	1,74	0,532	59
2,7	1,89	0,576	56
3,0	2,03	0,618	53
3,3	2,17	0,660	51
3,6	2,3	0,701	48
3,9	2,43	0,741	47
4,2	2,56	0,780	45
4,5	2,69	0,819	43
4,8	2,81	0,857	42
5,1	2,94	0,895	41
5,4	3,06	0,933	40
5,7	3,18	0,969	39
6,0	3,3	1,006	38