

## Coaxial Cable GX\_07272

### Description

PE cross-linked - 50 Ohm - single screen



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	2.25 mm
Dielectric	PEX (Polyethylene cross-linked)		7.25 mm
Outer conductor	Copper, Silver plated	Braid, 95%	8.15 mm
Jacket	RADOX	RAL 9005 - bk	10.3 mm +/- 0.15

Print: HUBER+SUHNER GX 07272 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	5.03 ns/m
Insulation resistance	≥ 1 x 10 <sup>8</sup> MQm
Min. screening effectiveness	≥ 41 dB (up to 2 GHz)
Max. operating voltage	≤ 5 kV <sub>rms</sub> (at sea level)
Test voltage	10 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	16.1 kg/100 m
Min. bending radius	static 50 mm
	repeated (for ≤ 50 bendings) 100 mm
	dynamic 150 mm

#### Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, EN 60332-1-2, IEC 60332-3-25
Smoke density	EN 61034-2
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

### Additional Information

DIN 5510-2 compliant  
 EN 45545 compliant  
 Hazard level for indoor cables: HL2  
 Railway certificates discontinued by end of 2017. Replacement type for railway: RADOX\_RF\_213.

#### Ordering Information

Order as GX\_07272

#### Remarks

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

#### Suitable Connectors

Cable group U29 7 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 = 0.191

b = 0.0698

f<sub>max</sub> = 2

P at 1GHz = 560

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	0.07	0.021	1771
0.2	0.1	0.030	1252
0.3	0.13	0.038	1022
0.4	0.15	0.045	885
0.5	0.17	0.052	792
0.6	0.19	0.058	723
0.7	0.21	0.064	669
0.8	0.23	0.069	626
0.9	0.24	0.074	590
1.0	0.26	0.079	560
1.1	0.28	0.084	534
1.2	0.29	0.089	511
1.3	0.31	0.094	491
1.4	0.32	0.099	473
1.5	0.34	0.103	457
1.6	0.35	0.108	443
1.7	0.37	0.112	430
1.8	0.38	0.116	417
1.9	0.4	0.121	406
2.0	0.41	0.125	396