

## Coaxial Cable GX\_03272

### Description

PE cross-linked - 50 Ohm - single screen



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.902 mm
Dielectric	PEX (Polyethylene cross-linked)		2.95 mm
Outer conductor	Copper, Silver plated	Braid, 96%	3.6 mm
Jacket	RADOX	RAL 9005 - bk	4.95 mm +/- 0.15

Print: HUBER+SUHNER GX 03272 50 Ohm (PA no.)

#### Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	3 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	≥ 1 x 10 <sup>8</sup> MΩm
Min. screening effectiveness	≥ 41 dB (up to 2 GHz)
Max. operating voltage	≤ 2.5 kV <sub>rms</sub> (at sea level)
Test voltage	5 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight		4 kg/100 m
Min. bending radius	static	25 mm
	repeated (for ≤ 50 bendings)	50 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\_03272

#### Remarks

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

#### Suitable Connectors

Cable group U7 3 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 = 0.4003

b = 0.1637

$f_{\max} = 3$

P at 1GHz = 205

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
0.15	0.18	0.055	529
0.3	0.27	0.082	374
0.45	0.34	0.104	306
0.6	0.41	0.124	265
0.75	0.47	0.143	237
0.9	0.53	0.161	216
1.05	0.58	0.177	200
1.2	0.63	0.194	187
1.35	0.69	0.209	176
1.5	0.74	0.224	167
1.65	0.78	0.239	160
1.8	0.83	0.253	153
1.95	0.88	0.268	147
2.1	0.92	0.282	141
2.25	0.97	0.295	137
2.4	1.01	0.309	132
2.55	1.06	0.322	128
2.7	1.1	0.335	125
2.85	1.14	0.348	121
3.0	1.18	0.361	118