

Coaxial Cable GX_03272-04

Description

PE cross-linked - 50 Ohm - single screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm
Dielectric	PEX (Polyethylene cross-linked)		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 96%	3.6 mm
Jacket	RADOX	RAL 9005 - bk	4.95 mm +/- 0.15

Print: HUBER+SUHNER GX 03272-04 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 ⁸ MΩm
Min. screening effectiveness	≥ 40 dB (up to 2 GHz)
Max. operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	4.04 kg/100 m
Min. bending radius	static 25 mm
	repeated (for ≤ 50 bendings) 50 mm
	dynamic 100 mm

Environmental Data

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

Additional Information

DIN 5510-2 compliant

Railway certificates discontinued by end of 2017. Replacement type for railway: RADOX_RF_58.

Ordering Information

Order as GX_03272-04

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} = 2

P at 1GHz = 130

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	0,14	0,044	411
0,2	0,21	0,065	291
0,3	0,27	0,082	237
0,4	0,32	0,097	206
0,5	0,36	0,111	184
0,6	0,41	0,124	168
0,7	0,45	0,137	155
0,8	0,49	0,149	145
0,9	0,53	0,161	137
1,0	0,56	0,172	130
1,1	0,6	0,183	124
1,2	0,63	0,194	119
1,3	0,67	0,204	114
1,4	0,7	0,214	110
1,5	0,74	0,224	106
1,6	0,77	0,234	103
1,7	0,8	0,244	100
1,8	0,83	0,253	97
1,9	0,86	0,263	94
2,0	0,89	0,272	92