Data Sheet

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
2011/65/EU (RoHS)	compliant

Additional Information

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*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a = 0.387	b = 0.201	f_{max} = 2	P at 1GHz = 130

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,1	0,14	0,043	411
0,2	0,21	0,065	291
0,3	0,27	0,083	237
0,4	0,33	0,099	206
0,5	0,37	0,114	184
0,6	0,42	0,128	168
0,7	0,46	0,142	155
0,8	0,51	0,155	145
0,9	0,55	0,167	137
1,0	0,59	0,179	130
1,1	0,63	0,191	124
1,2	0,67	0,203	119
1,3	0,7	0,214	114
1,4	0,74	0,225	110
1,5	0,78	0,236	106
1,6	0,81	0,247	103
1,7	0,85	0,258	100
1,8	0,88	0,269	97
1,9	0,92	0,279	94
2,0	0,95	0,289	92