Data Sheet

Coaxial Cable
GX_03272_D-06

Description

PE cross-linked - 50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.88 mm
Dielectric	PEX (Polyethylene cross-linked)		2.95 mm
Outer conductor	Copper, Silver plated	Braid, 96%	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	4.2 mm
Jacket	RADOX	RAL 9005 - bk	5.4 mm +/- 0.1

Print: HUBER+SUHNER GX 03272 D-06 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	5.03 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 80 dB (up to 6 GHz)
Max. operating voltage	≤ 2.5 kV_{rms} (at sea level)
Test voltage	5 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		5.5 kg/100 m
Min. bending radius	static	30 mm
	repeated (for ≤ 50 bendings)	54 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_D-06

Remarks

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

Suitable Connectors

Cable group	U9 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 =	0.3952	b =	0.0779	f_{max} =	6	P at 1GHz =	205

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
0.3	0.24	0.073	374
0.6	0.35	0.108	265
0.9	0.45	0.136	216
1.2	0.53	0.160	187
1.5	0.6	0.183	167
1.8	0.67	0.204	153
2.1	0.74	0.224	141
2.4	0.8	0.244	132
2.7	0.86	0.262	125
3.0	0.92	0.280	118
3.3	0.97	0.297	113
3.6	1.03	0.314	108
3.9	1.08	0.330	104
4.2	1.14	0.347	100
4.5	1.19	0.362	97
4.8	1.24	0.378	94
5.1	1.29	0.393	91
5.4	1.34	0.408	88
5.7	1.39	0.423	86
6.0	1.44	0.438	84