

SUHNER® COAXIAL CABLE DATA SHEET TYPE GX_07272

Single screened coaxial cable - flame retardant - free of halogen

Cable Design

SUHNER SWITZERLAND

MaterialDetailDiameterCentre conductor:CopperStrand-072.25 mmDielectric:PEX (Polyethylene cross-linked)7.25 mm1. Outer conductor:Copper: Silver Plated Braid95%8.15 mm

Jacket: RADOX (LSFH) RAL 9005 - bk 10.3 mm +/- 0.1

Print: HUBER+SUHNER GX 07272 50 Ohm (PA no.)

Electrical Data

Impedance: 50 Ω +/-2 Max. operating frequency: GHz Capacitance: 100.7 pF/m Velocity of signal propagation: 66 % 5.03 ns/m Signal delay: Min. screening effectiveness: 41 dB (up to 2 GHz) Max. operating voltage: 5 kV_{rms} (at sea level) Test voltage: 10 kV_{rms} (50 Hz/ 1min) Insulation resistance: $\times 10^6 M\Omega/m$

General Data

Suitable Connectors

Cable group U29 / U28 (for details refer to the "SUHNER coaxial connector catalogue" or contact your nearest HUBER+SUHNER partner)

Notes

WAIVER

While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be constructed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.

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Matrix Attenuation [formula: (a*f^0.5 +b*f)] and Power CW [formula: (p*/f^0.5)]

Coefficients:

a = 0.171 b = 0.058 $f_{max} = .2$ $p_{at 1GHz} = 560$

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(watt)
, ,	sea level	sea level	sea level
	25° C ambient temperature	25° C ambient temperature	40° C ambient temperature
0.10	0.060	0.0183	1'770.9
0.20	0.088	0.0268	1'252.2
0.30	0.111	0.0338	1'022.4
0.40	0.131	0.0399	885.4
0.50	0.150	0.0457	792.0
0.60	0.167	0.0509	723.0
0.70	0.184	0.0561	669.3
0.80	0.199	0.0607	626.1
0.90	0.214	0.0652	590.3
1.00	0.229	0.0698	560.0
1.10	0.243	0.0741	533.9
1.20	0.257	0.0783	511.2
1.30	0.270	0.0823	491.2
1.40	0.284	0.0866	473.3
1.50	0.296	0.0902	457.2
1.60	0.309	0.0942	442.7
1.70	0.322	0.0981	429.5
1.80	0.334	0.1018	417.4
1.90	0.346	0.1055	406.3
2.00	0.358	0.1091	396.0

Test (following tests have been passed successfully)
Flame propagation: *IEC* 60332-1
Halogen content: *IEC* 60754

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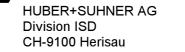
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