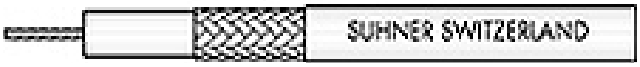
SUHNER® COAXIAL CABLE DATA SHEET

TYPE GX_07272

Single screened coaxial cable - flame retardant - free of halogen

Cable Design



	Material	Detail	Diameter	
Centre conductor:	*Copper*	*Strand-07*	*2.25 mm*	
Dielectric:	*PEX (Polyethylene cross-linked)*		*7.25 mm*	
1. Outer conductor:	*Copper: Silver Plated Braid 95%*		*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:		*2*	GHz
Capacitance :		*100.7*	pF / m
Velocity of signal propagation:		*66*	%
Signal delay:		*5.03*	ns / m
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:	>	*1*	x 10^6 MΩ/m

General Data

Temperature range:		*-40* °C… +105 °C	
Weight:		*16.1*	kg / 100 m
Min. bending radius :	static	*55*	mm
	repeated (for max. 50 bendings)	*100*	mm

Suitable Connectors

Cable group *U29 / U28*

(for details refer to the "SUHNER coaxial connector catalogue" or contact your nearest HUBER+SUHNER partner)

Notes

Issued: 30.7.2004 12:29

Document: DOC-0000177670.DOC

RF_Co_Ca_PDF

HUBER+SUHNER

HUBER+SUHNER AG
Division ISD
CH-9100 Herisau
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
http://www.hubersuhner.com

SUHNER® COAXIAL CABLE DATA SHEET

TYPE GX_07272

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 (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
0.10	***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*

Issued: 30.7.2004 12:29
Document: DOC-0000177670.DOC
RF_Co_Ca_PDF

HUBER+SUHNER
HUBER+SUHNER AG
Division ISD
CH-9100 Herisau
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
http://www.hubersuhner.com