Caleb
Cable

Class A+
Coaxial Cable

For Digital TV, Satellite TV, HDTV.

Caleb Cable Industrial Ltd.

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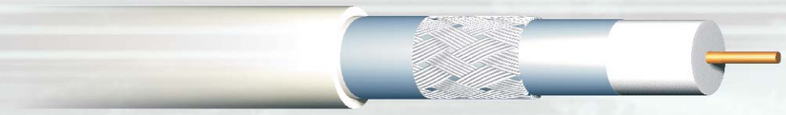
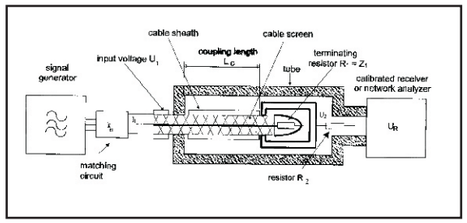
Class A+
Coaxial HD100



Screening Efficiency	>120dB
Transfer Impedance	<3mohm/m

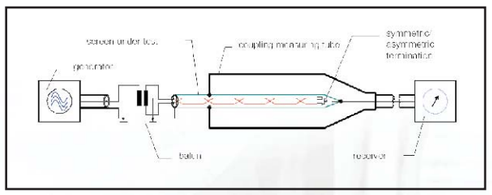
Transfer Impedance



The test sample shall be connected to the generator and the outer circuit (tube) to receiver (see figure).

The attenuation, areas shall be measured in a logarithmic frequency sweep over the whole frequency range, which is specified for the transfer impedance, and at the same frequency points as for the calibration procedure.

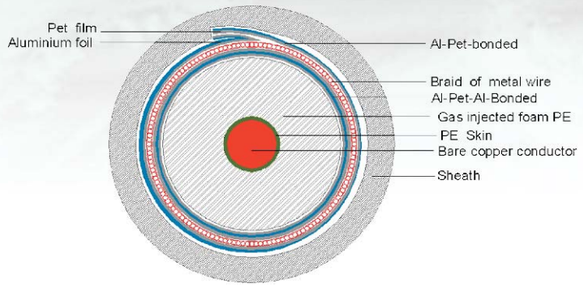
Screening Efficiency



The screen under test is short circuited with tube at the near end. Due to this short circuit, the influence of capacitive parts are excluded.

Contrary to elder standards(IEC 96-1),the generator and the receiver are exchanged. The advantage of the feeding of the matched inner system is the clear marching of the generator as well as the reflection free wave propagation in the cable under test.

Shorting fold screen(J)



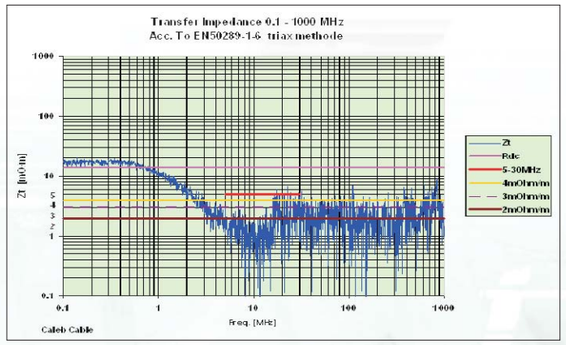
One foil of AL/PET/AL bonded to the dielectric, a detail also facilitating the insertion of the suitable F male connectors;

One ordinary braid of tinned copper wires covering the first AL foil;

Another Al/pet foil covering the braid and folding on itself.

This special structure of the screening guarantees the high performance of the Screening Attenuation values, over 100 and even 115 dB, which is very close to those values provided by a real metal tube, while keeping the flexibility of the coaxial cable within acceptable limits for an easy handling during the installation.

Transfer Impedance



Construction Data

Inner conductor	Material	Cu
	dia.mm	1.00
Dielectric	Material	FPE
	dia.mm	4.70
Braid		
Film foil type	Material	Al-Foil-Al
Foil cover age	%	115%
Braid cover age	Material	TCU
Shorting fold film type	%	85%
Foil cover age	Material	Al-Foil-Al
	%	100%
Sheath	Material	PVC
	dia.mm	6.80

Physical Data

Cable weight	Kg/km	53.6
Min. Bending radius	mm	70
Max. Cable pulling force	N	132

Physical Data

Length/Cardboand/ Reel/Wooden	100/ 250/ 1000

Screening Efficiency

Electrical Data

Impedance		Ohm	75 ± 3
Capacitance		pF/m	53 ± 2
Velocity ratio		%	84
Attenuation (at 20℃)			
at	5 MHz	dB/100m	1.50
at	10 MHz	dB/100m	2.20
at	30 MHz	dB/100m	3.10
at	50 MHz	dB/100m	4.20
at	200 MHz	dB/100m	8.30
at	300 MHz	dB/100m	10.0
at	470 MHz	dB/100m	12.2
at	860 MHz	dB/100m	18.0
at	1000 MHz	dB/100m	19.5
at	1750 MHz	dB/100m	26.5
at	2150 MHz	dB/100m	30.0
at	2400 MHz	dB/100m	32.5
at	3000 MHz	dB/100m	36.5
Return Loss (at 20℃)			
at	5~30 MHz	dB	>30
at	30~470 MHz	dB	>30
at	470~1000 MHz	dB	>30
at	1000~3000 MHz	dB	>22
Screening efficiency (at 20℃)			
at	5~30 MHz	dB	>90
at	30~470 MHz	dB	>100
at	470~1000 MHz	dB	>100
at	1000~3000 MHz	dB	>85
Transfer impedance (at 20℃)			
at	5~30 MHZ	Ohm/m	<5
DC Resistance of inner cond. (at 20℃)			
Sheath spark testing		kv	3.0

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