

ören HD083 (0.8/3.7) Class A+ EN50117

HD 083 75 Ohm Coaxial Cable

Application

These cables are used for indoor distributions of CATV networks and connections of SMATV systems where low attenuations and high screening performance is required.

Construction Details

Inner Conductor	: ø 0.81 mm Bare copper
Insulation	: ø 3.60 mm Gas injected foam PE
1st Shield	: Aluminum foil, bonded to the insulation
2nd Shield	: Tinned copper wire braiding (63% Coverage)
3rd Shield	: Aluminum foil, bonded to the outer sheath
Outer Sheath*	: ø 5.80 mm PVC, PE or HFFR

Mechanical Properties

Cable Weight	39 kg/km
Min. Bending Radius	45 mm
Max. Tensile Strength	40 N
Standard Packing	100 m / 300 m / 500 m

Standards

Flame Behaviour

Flame retardant according to IEC 60332-1

Screening Performance

Class A+ according to EN 50117-2-1 and EN 50117-2-4

Matching Cabelcon Connectors		
Interface	Product Name	Product Code
F Male	F-56-CX3 3.9	99909421
F Male	F-56 3.9 SELF INSTALL	99909646
F Male	F-59-CX3 B 3.9 SHORT	99939420
IEC Male	IECM-56-CX3 3.9	99909482
IEC Female	IECF-56-CX3 3.9	99909492
BNC Male	BNCM-56-CX3 3.9	99909473

* PVC Sheath : HD 083 (0.8/3.7) • PE Sheath : HD 083 PE (0.8/3.7) • HFFR Sheath : HD 083 HF (0.8/3.7)

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Electrical Properties

Impedance

$75 \pm 2 \Omega$

Capacitance

53 ± 2 pF/m

Velocity of Propagation

85%

Inner Conductor DCR @ 20°C

34.50 Ohm/km

Outer Conductor DCR @ 20°C

15.40 Ohm/km

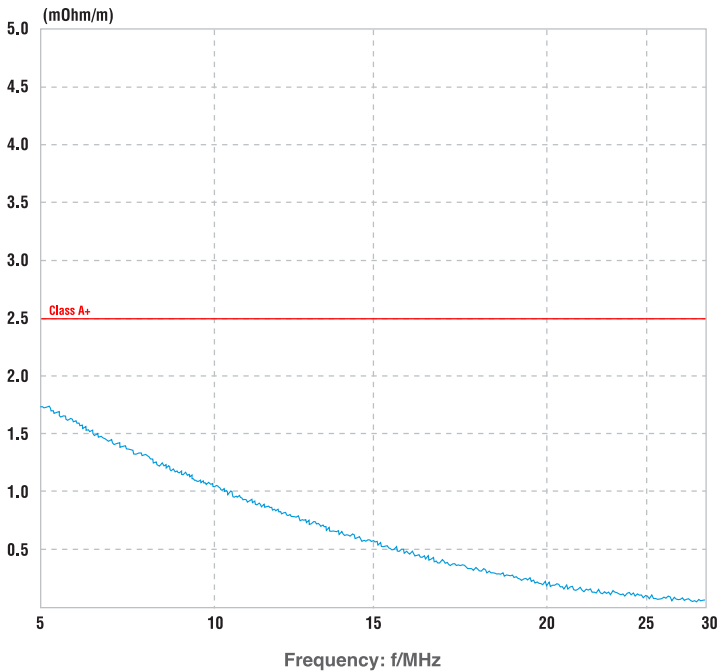
Attenuations @ 20°C

5 MHz	2.10 dB/100m
50 MHz	5.70 dB/100m
100 MHz	8.10 dB/100m
230 MHz	12.20 dB/100m
470 MHz	17.80 dB/100m
860 MHz	24.20 dB/100m
1000 MHz	26.40 dB/100m
1500 MHz	32.60 dB/100m
1750 MHz	35.40 dB/100m
2150 MHz	39.20 dB/100m
2400 MHz	42.10 dB/100m

Return Loss

5 - 30 MHz	> 26 dB
30 - 470 MHz	> 23 dB
470 - 1000 MHz	> 20 dB
1000 - 3000 MHz	> 18 dB

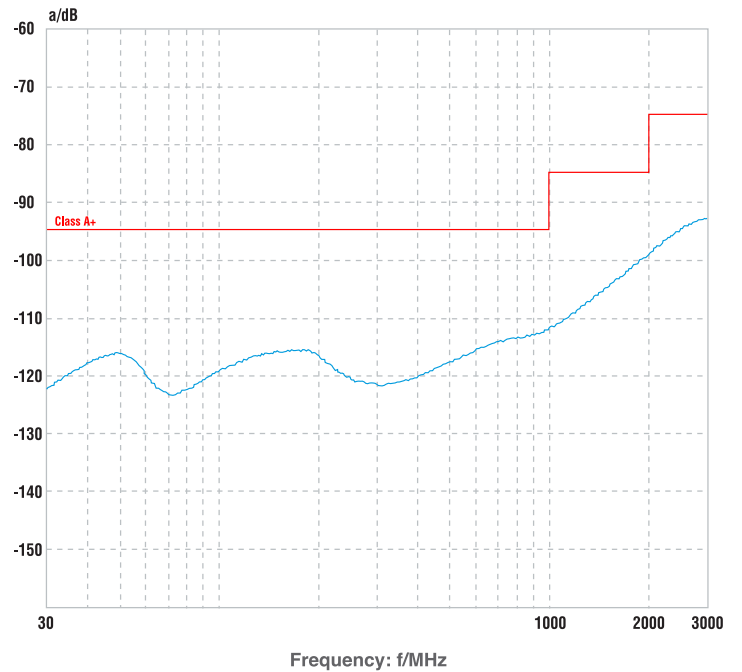
Transfer Impedance Graph



Transfer Impedance

5-30MHz < 2.5 mOhm/m

Shielding Attenuation Graph



Shielding Effectiveness

30 - 1000MHz > 100 dB
1000 - 2000MHz > 90 dB
2000 - 3000MHz > 85 dB

Distributor: