

# CAI Type100 Coax 75Ω Broadband CATV Cables



## Cable Design *acc. to CAI Benchmark CAI-007-C/100/09-2013*

<b>Inner Conductor</b>	Solid bare copper wire
Stranding	1/1,0 mm ± 0,01
<b>Dielectric</b>	Foam Polyethylene (PE)
Diameter	Ø 4,70 mm ± 0,10
<b>Shielding</b>	Bare copper tape screen
Overlap	≥ 120 %
<b>Outer Conductor</b>	Bare copper wire braid
Wire diameter	0,12 mm
Coverage	55 ± 3 %
<b>Outer Jacket</b>	see table below
Diameter	Ø 6,55 mm ± 0,30



## Specification

Part Number	Type	Standards
61001	PVC	acc. to CAI Benchmark CAI-07-C/100/09-2013
61004	LSZH FireFighter®	BS EN 50117-1 : 2002

## Mechanical and Thermal Characteristics

Min. Bending Radius	Installation	23 mm
	repeated	70 mm
Max. Pulling Tension		460 N
Crush Resistance of Cable	(load of 700 N)	< 1 %
Rated Temperature	Storage/Operating	-20°C up to +75°C
	Outdoor Installation	-5°C

## Electrical Data

Characteristic Impedance	75±3	0hm
Capacitance	54	pF/m
Velocity Ratio	> 82	%
DCR : Inner Conductor	< 23	0hm/km
DCR : Outer Conductor	< 15	0hm/km
Jacket Sparker	4000	VCA
Dielectric Strength	1500	VCA
Insulation Resistance	> 10,000	M0hm•km

## Return Loss

Frequency (MHz)	dB
5 - 470	> 23
470 - 862	> 20
862 - 2150	> 18

## Shielding Effectiveness

Frequency (MHz)	dB/100m
30 - 470	> 75
470 - 1000	> 75
1000 - 2150	> 65

## Attenuation

Frequency (MHz)	dB/100m
5	< 1,60
50	< 4,60
100	< 6,50
200	< 9,50
460	< 15,0
860	< 19,5
1000	< 21,5
1750	< 29,0
2150	< 32,5