

**Distribution and trunk coaxial cable for burial installation  
- 75 Ohm  
Underground installation cable (Screening Class A)**



**SAT1**

### Constructive Data

Inner conductor of plain copper	(Cu)	Ø 1,63 mm
Dielectric of physical foam polyethylene	(PEG)	Ø 7,20 mm
Aluminium/Polyester/Aluminium/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)	
Braid of tinned copper wires	(CuSn)	Ø
Braid optical coverage (IEC 96-1)		64 %
Tracer Identifier	Year + Flag	
Outer sheath of Polyethylene black with carbonblack (Q4) printed each meter by yellow ink-jet :	(PE)	Ø 10,10 ± 0,15 mm (a=year, ss=week) (m=meter marking)

**CAVEL DKT SAT1 GAS INJECTED 75 Ohm ass m**

### Mechanical Parameters

Weight of copper conductors	34,90	kg/km
Total weight of cable	83,50	kg/km
Minimum bending radius (single/repetead bending)	100	mm
Max. cable pulling strenght	300	N

### Electrical Parameters

Characteristic impedance (@ 200 MHz)	75,00 ± 2,00	Ohm
Capacitance (@1kHz)	52,00 ± 2,00	pF/m
Velocity factor	85 %	
Inner conductor resistance	8,5	Ohm/Km
Outer conductor resistance	10,0	Ohm/Km
loop Resistance	18,5	Ohm/Km
Maximum current (Ieff)	16,0	A
Insulation voltage of the sheath (spark test)	8,0	kV
Standard:	EN 50117-2-3	

**-Attenuation-**

Frequency (MHz)	5	10	30	50	200	300	470	862	1000	1750	2150	2400	3000
dB/100m	1,10	1,50	2,20	2,80	5,60	6,90	8,80	12,30	13,20	17,90	20,10	21,00	24,50

**Structural return loss (SRL)**

5 - 470 MHz	>30 dB
470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>23 dB
2000 - 3000 MHz	>20 dB

**Transfer impedance**

5 - 30 MHz < 1,1 mOhm/m

**Screening attenuation (SA)**

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