

# Coax3 CT 33 S (3.3/13.5) LWT

## CATV Trunk Cable



## Application

CATV cables are used in trunk lines of CATV and broadband networks between headend and subscriber termination point. They are suitable for direct buried and duct laying. Coax LWT types are Longitudinal Water Tight.

## Standards

EN 50117-2-3,  
further EN 50083-2/A1, EN 50117-1  
EN50289-4-2 method B;

## Flame resistance

IEC 60332-1 (not for cables with PE sheath)

## Construction

Inner conductor	bare copper wire, diameter 3.3 mm
Insulation	gas injected foam PE, diameter 13.3 mm
Outer conductor	welded copper tube, diameter 14.1 mm
Sheath	PE, LWT (Longitudinal Water Tight), diameter 17.1 mm ± 0.5 mm black
Printing	<b>DRAKA - COAX3 CT 33 S LWT</b> + meter marking + batch number

## Mechanical properties

Minimum bending radius	without load	10 x D ( D= outer diameter )
	with load	15 x D ( D= outer diameter )
Temperature range	during operation	- 40° C to + 70° C
	during storage	- 40° C to + 70° C
	during installation	- 5° C to + 60° C
Longitudinal water tightness	according to EN 50289-4-2 method B	3m sample, water height 1m, 24h

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### Electrical properties

at 20°C

DC resistance	Inner conductor	2.1 Ω/km
	Outer conductor	1.7 Ω/km
Mutual capacitance		50 pF/m
Characteristic impedance		75 Ω ± 1.5 Ω
Velocity ratio		88 %
Screening attenuation	30 MHz – 1000 MHz	> 120 dB <b>Screening Class A++</b>
Transfer impedance	5 MHz – 30 MHz	< 0.8 mΩ/m <b>Screening Class A++</b>
Electrical strength	Dielectric	2 kV <sub>DC</sub> 1 min
	Sheath	3.75 kV <sub>DC</sub> 1 min

### Electrical data

at 20°C

Attenuation (dB/100m)		Return loss (dB) acc. to EN 50117-2-3	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	0.4	5 – 30	> 26
50	1.3	30 – 470	> 26
100	1.9	470 – 1000	> 23
200	2.7		
400	4.0		
800	5.8		
862	6.0		
950	6.3		
1350	7.7		
1750	8.9		
2150	10.1		
3000	12.0		

### Technical data

Product code	Cable type	Weight	Standard delivery length	Drum size	Copper content	Tensile force	Bending radius	Storage
		kg/km	m	*OWD		N	mm	
60016693	Coax3 CT 33 S PE LWT	290	1000	1200/600/710	195	500	175	outside

\*OWD (Oneway drum)

[PRODUCT CODE TABLE]

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