

Coax3 CT 33 S (3.3/13.5)

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.

Standards

Screening Class A++ acc. to EN 50117-2-3, further EN 50083-2/A1, EN 50117-1

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, diameter 17.1 mm \pm 0.5 mm black
Printing	DRAKA COMTEQ – COAX3 CT 33 S + 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

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 $\Omega \pm 1.5 \Omega$
Velocity ratio		88 %
Screening factor	30 MHz – 1000 MHz	> 120 dB
Transfer impedance	5 MHz – 30 MHz	< 0.8 m Ω /m
Electrical strength	Dielectric	2 kV _{DC} 1 min
	Sheath	3.75 kV _{DC} 1 min

Electrical data

at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)	nominal	Frequency (MHz)	
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 kg/km	Standard delivery length m	Drum size OWD (Oneway drum)	Copper content	Tensile force N	Bending radius mm	Storage
1002555 (old: CK2683200)	Coax3 CT 33 S PE bk	290	1000	1200/600/710	195	500	175	outside