



# Coax3 CT 33 S TS (3.3/13.5)

# **CATV Trunk Cable with suspension wire**



Application

CATV cables are used in trunk lines of CATV and broadband networks between headend and subscriber termination point.

#### **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			
<ol> <li>Sheath</li> <li>Sheath</li> </ol>	PE, diameter 17.1 mm ± 0.5 mm, colour black RAL 9005 PE, diameter 18.8 mm x 29.2 mm			
Suspension wire	Stranded galvanized steel wires, 19 x 1.0 mm, diameter 5.0 mm			
Printing	nting DRAKA – COAX3 CT 33 S + batch number + meter marking			

## **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		
Minimum breaking strength of suspension wire		18000 N		



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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		$75 \Omega \pm 1.5 \Omega$
Velocity ratio		88 %
Screening factor	30 MHz - 1000 MHz	> 120 dB
Transfer impedance	5 MHz – 30 MHz	< 0.8 mΩ/m
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)		
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			



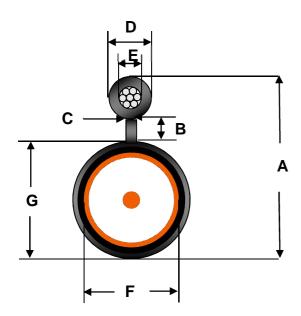


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#### **Technical data**

Product code	Cable type	Weight kg/km	Standar d delivery length m	Drum size *OWD	Copper content	Maximum tensile force of suspension wire N	Bending radius mm	Storage
1014244 60009202	Coax3 CT 33 S TS PE bk	506	1000	1400/710/96 0	195	6000	200	outside

<sup>\*</sup>OWD (Oneway drum)



Diameter in mm	3.3/13.3-TS	
Inner conductor		3.3
Insulation		13.3
Outer conductor	(F)	14.1
Sheath	(G)	18.8
Bridge height	(B)	2.5
Bridge width	(C)	5.0
Suspension wire	(E)	5.0
Wire sheath	(D)	8.0
Total	(A)	29.2

[PRODUCT CODE TABLE]

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

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