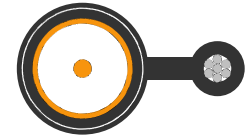


Coax4 CT 22 S (2.2/8.8) with messenger

CATV Aerial Cable



Application

CATV cables with messenger element are used as aerial cables in CATV and broadband networks between headend and subscriber termination point. They are suitable for direct exposure to sun and rain and also for direct buried and duct laying.

Standards

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

Construction

Inner conductor	bare copper wire, diameter 2.2 mm
Insulation	gas injected foam PE, diameter 8.8 mm
Outer conductor	welded copper tube, diameter 9.5 mm
Sheath	element sheath: PE, diameter 12.3 ± 0.3 mm, black overall sheath: PE, figure-8 with messenger, black, dimension approx. 13.7 mm x 22.2 mm
Suspension wire	Stranded galvanized steel wires, 7 x 1.0 mm, diameter 3.0 mm
Printing	DRAKA - COAX4 CT 22 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		7160 N

Coax4 CT 22 S (2.2/8.8) with messenger

Electrical properties

at 20°C

DC resistance	Inner conductor	4.8 Ω/km
	Outer conductor	2.6 Ω/km
Mutual capacitance		50 pF/m
Characteristic impedance		75 Ω ± 2 Ω
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 _{DC} 1 min
	Sheath	3.75 kV _{DC} 1 min

Electrical data

at 20°C

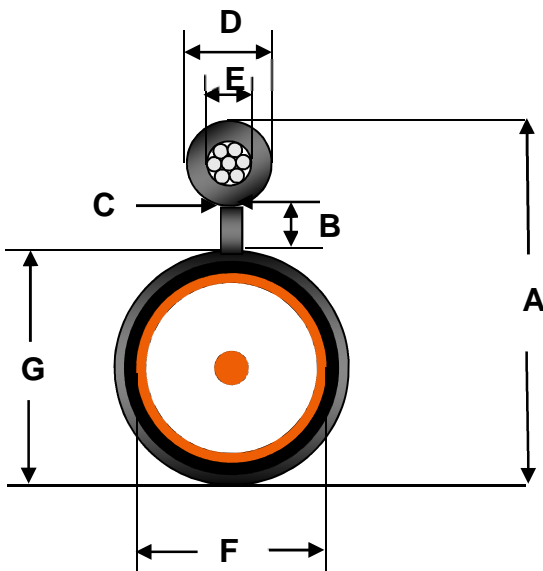
Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	0.65	5 – 30	> 26
50	2.0	30 – 470	> 26
100	2.9	470 – 1000	> 23
200	4.2		
400	6.0		
800	8.7		
862	9.1		
950	9.6		
1350	11.3		
1750	13.3		
2150	15.1		
3000	18.0		

Coax4 CT 22 S (2.2/8.8) with messenger

Technical data

Product code	Cable type	Weight Kg/km	Standard delivery length m	Drum size *OWD	Copper content	Tensile force N	Bending radius mm	Storage
1003606 60016728	Coax4 CT 22 S TS PE bk	270	1000	1200/800/69 4	110	2300	125	outside

*OWD (one-way drum)



Diameter in mm	2.2/8.8-TS
Inner conductor	2.2
Insulation	8.8
Outer conductor (F)	9.5
Sheath (G)	13.7
Bridge height (B)	3.0
Bridge width (C)	2.5
Suspension wire (E)	3.0
Wire sheath (D)	5.5
Total (A)	22.2

[PRODUCT CODE TABLE]

© PRYSMIAN GROUP 2011, All Rights Reserved

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.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.