

# Coax4 CT 22 S (2.2/8.8)

## 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 2.2 mm   |
| Insulation      | gas injected foam PE, diameter 8.8 mm                                     |
| Outer conductor | welded copper tube, diameter 9.5 mm                                       |
| Sheath          | PE, diameter $12.3 \pm 0.3$ mm<br>black                                   |
| Printing        | <b>DRAKA</b> COMTEQ – <b>COAX4 CT 22 S</b> + meter marking + batch number |

## Mechanical properties

|                        |                     |                                     |
|------------------------|---------------------|-------------------------------------|
| Minimum bending radius | without load        | $10 \times D$ ( D= outer diameter ) |
|                        | with load           | $15 \times D$ ( 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                   |

## Coax4 CT 22 S (2.2/8.8)

### 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 <sub>DC</sub> 1 min    |
|                          | Sheath            | 3.75 kV <sub>DC</sub> 1 min |

### Electrical data

at 20°C

| Attenuation<br>(dB/100m) |         | Return loss<br>(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    |                     |      |

### 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             |         |
| 1002559 (old: CK2684200) | Coax4 CT 22 S PE bk                                   | 170    | 1000                     | 1250/630/670 | 110            | 500           | 125            | outside |
| 1002865 (old: CK2684210) | Coax4 CT 22 S PE green RAL 6016<br><b>fading out!</b> | 170    | 1000                     | 1250/630/670 | 110            | 500           | 125            | outside |

\*OWD (one-way drum)

## Coax4 CT 22 S (2.2/8.8)

### Product Code Table

| Product Description             | Product Code    | PG Reference Code | PG Part Number  |
|---------------------------------|-----------------|-------------------|-----------------|
| Coax4 CT 22 S PE                |                 | --                | <b>60009599</b> |
| Coax4 CT 22 S PE 500DW          | 1002559-00500DW | 60009279          | <b>60016723</b> |
| Coax4 CT 22 S PE 1000DW         | 1002559-01000DW | 60009279          | <b>60016724</b> |
| Coax4 CT 22 S PE with messenger |                 | 60016728          | <b>60016728</b> |

© PRYSMIAN GROUP 2007, 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.