

Coax4 CT 22 A (2.2/10.2/413)

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 (Cenelec SC46XA), 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 10.2 mm |
| Outer conductor | Cu-PET-Cu foil, longitudinal, under bare copper braid , optical coverage 60% diameter 11.0 mm |
| Sheath | PE, diameter 13.8 mm ± 0.2 mm black |

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 |

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Electrical properties

at 20°C

| | | |
|--------------------------|-------------------|-----------------------------|
| DC resistance | Inner conductor | 4.4 Ω/km |
| | Outer conductor | 4.5 Ω/km |
| Mutual capacitance | | 52 pF/m |
| Characteristic impedance | | 75 Ω ± 2 Ω |
| Velocity ratio | | 82 % |
| Screening factor | 30 MHz – 1000 MHz | > 100 dB |
| Transfer impedance | 5 MHz – 30 MHz | ≤ 1 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 | 0.6 | 5 – 30 | > 26 |
| 50 | 2.0 | 30 – 470 | > 26 |
| 100 | 2.9 | 470 – 1000 | > 23 |
| 200 | 4.2 | | |
| 400 | 6.1 | | |
| 800 | 8.9 | | |
| 862 | 9.2 | | |
| 950 | 9.7 | | |
| 1350 | 11.8 | | |
| 1750 | 13.8 | | |
| 2150 | 15.8 | | |
| 3000 | 18.5 | | |

Technical data

| Product code | Cable type | Weight kg/km | Copper content | Tensile force N | Storage |
|--------------------------|--|--------------|----------------|-----------------|---------|
| 1002560 (old: CK2684300) | Coax4 CT 22 A (2.2/10.2/413) PE black | 160 | 84.9 | 475 | outside |
| 1002866 (old: CK2684310) | Coax4 CT 22 A (2.2/10.2/413) PE green RAL 6016 fading out! | 160 | 84.9 | 475 | outside |

Product Code Table

| Product Description | Product Code | PG Reference Code | PG Part Number |
|-------------------------|-----------------|-------------------|-----------------|
| Coax4 CT 22 A PE | | 60013791 | 60013791 |
| Coax4 CT 22 A PE 500DO | 1002560-00500DO | 60013791 | 60013793 |
| Coax4 CT 22 A PE 1000DO | 1002560-01000DO | 60013791 | 60013794 |

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