

Coax15 AD 06 S

CATV Drop Cable



Application

Drop cables are used in private and commercial TV signal distribution networks and as antenna cable for terrestrial and satellite broadcast systems.

Standards

Screening Class A acc. to EN 50117-2-1, EN 50117-2-2, EN 50117-2-4 and EN 50117-2-5, further EN 50083-2/A1, EN 50117-1

Flame resistance

IEC 60332-1

Construction

| | | |
|-----------------|--|--|
| Inner conductor | bare copper wire, diameter 0.65 mm | |
| Insulation | gas injected foam PE, diameter 2.9 mm | |
| Outer conductor | Al-PET foil, longitudinal, bonded to the insulation, under tinned copper braid , optical coverage 80%, + Al-PET foil, longitudinal, bonded to the sheath, diameter 3.6 mm | |
| Sheath | PVC altern. FRNC, diameter 4.3 mm ± 0.2 mm black or white | |
| Printing | DRAKA COMTEQ – COAX15 AD 06 S + meter marking + batch number | |

Mechanical properties

| | | |
|------------------------|-----------------------------|------------------------------|
| Minimum bending radius | without load | 5 x D (D= outer diameter) |
| | with load | 10 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 |
| Corrosivity | for cables with FRNC sheath | acc. to IEC 60754-2 |

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Electrical properties

at 20°C

| | | |
|--------------------------|---------------------|-----------------------------|
| DC resistance | Inner conductor | 53 Ω/km |
| | Outer conductor | 20 Ω/km |
| Mutual capacitance | | 52 pF/m |
| Characteristic impedance | | 75 Ω ± 3.0 Ω |
| Velocity ratio | | 82 % |
| Screening factor | 30 MHz – 1000 MHz | > 110 dB |
| | 1000 MHz – 2000 MHz | > 100 dB |
| | 2000 MHz – 3000 MHz | > 100 dB |
| Transfer impedance | 5 MHz – 30 MHz | ≤ 5 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 | 2.5 | 5 – 30 | > 26 |
| 50 | 7.5 | 30 – 470 | > 24 |
| 100 | 10.1 | 470 – 1000 | > 20 |
| 200 | 13.9 | 1000 – 3000 | > 18 |
| 400 | 20.1 | | |
| 800 | 28.9 | | |
| 862 | 30.0 | | |
| 950 | 31.7 | | |
| 1350 | 37.8 | | |
| 1750 | 42.3 | | |
| 2150 | 47.0 | | |
| 3000 | 56.5 | | |

Technical data

| Product code | Cable type | Weight | Standard delivery length | Drum size | Copper content | Tensile force | Bending radius | Storage |
|--------------------------|--|--------|--------------------------|--------------|----------------|---------------|----------------|---------|
| | | kg/km | m | *PWD | | N | mm | |
| 1002552 (old: CK2681700) | Coax15 AD 06 S PVC fading out! | 23.5 | 1000 | 400/120 /280 | 12.8 | 65 | 25 | inside |
| 1002553 (old: CK2681800) | Coax15 AD 06 S FRNC | 22.2 | 1000 | 400/120 /280 | 12.8 | 65 | 25 | inside |

*PWD (plywood drum)

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Product Code Table

| Product Description | Product Code | PG Reference Code | PG Part Number |
|------------------------------|-----------------|-------------------|-----------------|
| Coax15 AD 06 S PVC | | 60013766 | 60013766 |
| Coax15 AD 06 S FRNC | | 60013767 | 60013767 |
| Coax15 AD 06 S FRNC 500DW | 1002553-00500DW | 60013767 | 60013769 |
| Coax15 AD 06 S FRNC SW 500DW | 1016620-00500DW | 60026154 | 60013770 |

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