

Coax9 AD 11 S

CATV Drop Cable

A
50117



FRNC jacket CPR class

Eca
CPR

Application

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

PVC jacket nicht für die feste Verlegung geeignet

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

FRNC jacket: IEC 60332-1, CPR class Eca

Construction

| | |
|-----------------|--|
| Inner conductor | bare copper wire, diameter 1.13 mm |
| Insulation | gas injected foam PE, diameter 4.8 mm |
| Outer conductor | Al-PET foil, longitudinal, bonded to the insulation, under tinned copper braid , optical coverage 70%, + Al-PET foil longitudinal, bonded to the sheath, diameter 5.6 mm |
| Sheath | PVC altern. FRNC or PE, diameter 6.8 mm ± 0.2 mm white or black |
| Printing | PVC DRAKA COAX9 AD 11 S PVC - Class A DIN EN 50117-2-4 + batch number + meter marking |
| | FRNC DRAKA COAX9 AD 11 S FRNC - Class A DIN EN 50117-2-4 + batch number + meter marking |
| | PE DRAKA COAX9 AD 11 S PE - Class A DIN EN 50117-2-4 + batch number + meter marking |

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 | 19 Ω/km |
| | Outer conductor | 12 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 | 1.3 | 5 – 30 | > 26 |
| 50 | 4.1 | 30 – 470 | > 24 |
| 100 | 5.6 | 470 – 1000 | > 20 |
| 200 | 8.2 | 1000 – 3000 | > 18 |
| 400 | 11.8 | | |
| 800 | 16.6 | | |
| 862 | 17.1 | | |
| 950 | 18.1 | | |
| 1350 | 21.8 | | |
| 1750 | 25.2 | | |
| 2150 | 28.3 | | |
| 3000 | 34.7 | | |

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 | |
| 1002575 CK2689000 | Coax9 AD 11 S PVC wh | 49 | 1000 | 500/200/360 | 25.0 | 180 | 35 | inside |
| 1002576 CK2689100 | Coax9 AD 11 S FRNC wh | 46 | 1000 | 500/200/360 | 25.0 | 180 | 35 | inside |
| 1002877 CK2689700 | Coax9 AD 11 S PE bk | 42,5 | 500 | 400/120/280 | 25.0 | 180 | 35 | inside |

*PWD (plywood drum)

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Product Code Table

| Product Description | Product Code | PG Reference Code | PG Part Number |
|------------------------------|-----------------|-------------------|-----------------|
| Coax9 AD 11 S PVC | | 60013825 | 60013825 |
| Coax9 AD 11 S PVC 100RW | 1002575-00100RW | 60013825 | 60013826 |
| Coax9 AD 11 S PVC 500DW | 1002575-00500DW | 60013825 | 60013828 |
| Coax9 AD 11 S FRNC | | 60013829 | 60013829 |
| Coax9 AD 11 S FRNC 100RW | 1002576-00100RW | 60013829 | 60013830 |
| Coax9 AD 11 S FRNC 500DW | 1002576-00500DW | 60013829 | 60013831 |
| Coax9 AD 11 S FRNC 250DW | 1002576-00250DW | 60013829 | 60013832 |
| Coax9 AD 11 S PE black 500DW | 1002877-00500DW | 60013852 | 60013853 |

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