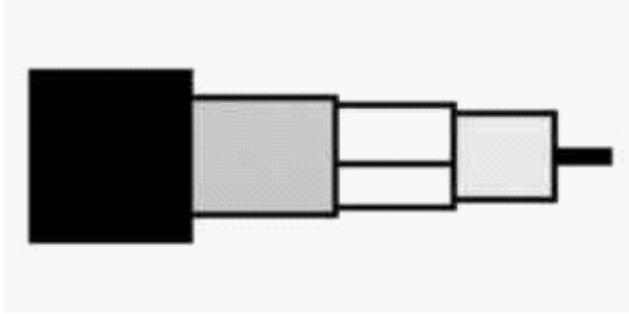


Part Number: H126A00.00300

COAXH126 AL PVC CATV



## Product Description

COAX[1.0/4.6] H126 AL PVC CATV

## Technical Specifications

|                        |  |
|------------------------|--|
| Suitable Applications: | Coaxial cables used in cabled distribution networks designed according to the European Standard EN 50117; Operating at frequencies between 5 MHz and 3000 MHz; The International Standard IEC 1196 |
|------------------------|--|

## Construction and Dimensions

### Conductor:

| Stranding | Material    | Nominal Diameter | Diameter +/- Tolerance |
|-----------|-------------|------------------|------------------------|
| Solid     | Bare copper | 1 in             | 0.03 mm                |

### Insulation:

| Type       | Material            | Nominal Diameter | Diameter +/- Tolerance |
|------------|---------------------|------------------|------------------------|
| Dielectric | Foamed Polyethylene | 4.57 mm          | 0.15 mm                |

### Outershield 1:

| Type  | Layer | Material                        | Coverage [%] | Min. Overlap | Nominal Diameter | Coverage +/- Tolerance |
|-------|-------|---------------------------------|--------------|--------------|------------------|------------------------|
| Tape  | 1     | Aluminum / Polyester / Aluminum |              | 1 mm         |                  |                        |
| Braid | 2     | Tinned copper                   | 35 %         |              | 5.25 mm          | 5 %                    |

### Outerjacket 1:

| Element | Material | Nominal Diameter | Diameter +/- Tolerance |
|---------|----------|------------------|------------------------|
|         | PVC      | 6.9 mm           | 0.2 mm                 |

According to European Standard HD 624

|                                   |          |
|-----------------------------------|----------|
| Min Elongation at Breakof Jacket: | 150 %    |
| Min Tensile Strength of Jacket:   | 12.5 MPa |

## Electrical Characteristics

### Conductor DCR:

| Max. Conductor DCR | Max. Conductor Loop | Max. Shield DCR |
|--------------------|---------------------|-----------------|
| 23 Ohm/km          | 49 Ohm/1000ft       | 26 Ohm/km       |

### Capacitance:

| Nom. Capacitance | Capacitance Tolerance |
|------------------|-----------------------|
| 54 pF/m          | 2 pF/m                |

|                            |               |
|----------------------------|---------------|
| Min Insulation Resistance: | 10000 MOhm*km |
|----------------------------|---------------|

### Impedance:

| Nominal Characteristic Impedance | Nominal Characteristic Tolerance | Regularity of Impedance |
|----------------------------------|----------------------------------|-------------------------|
| 75 Ohm                           | 3 Ohm                            | Min. 40 dB              |

### High Frequency (Nominal/Typical):

| Element | Frequency [MHz] | Nom. Insertion Loss |
|---------|-----------------|---------------------|
|         | 5 MHz           | 1.8 dB/100m         |
|         | 50 MHz          | 4.7 dB/100m         |
|         | 100 MHz         | 6.5 dB/100m         |
|         | 200 MHz         | 9.8 dB/100m         |
|         | 400 MHz         | 13 dB/100m          |
|         | 600 MHz         | 16.2 dB/100m        |
|         | 800 MHz         | 18.7 dB/100m        |
|         | 1000 MHz        | 21.1 dB/100m        |
|         | 1350 MHz        | 24.9 dB/100m        |
|         | 1750 MHz        | 28.8 dB/100m        |
|         | 2150 MHz        | 32.3 dB/100m        |
|         | 2400 MHz        | 34.4 dB/100m        |

Max. attenuation 10% higher

### Delay:

| Nominal Velocity of Propagation (VP) [%] | Velocity of Propagation Tolerance |
|--|-----------------------------------|
| 82 %                                     | 2 %                               |

### High Freq:

| Element | Frequency [MHz] | Min. RL (Return Loss) [dB] |
|---------|-----------------|----------------------------|
|         | 5 - 30 MHz      | 20 dB                      |
|         | 30 - 470 MHz    | 20 dB                      |
|         | 470 - 1000 MHz  | 18 dB                      |
|         | 1000 - 2000 MHz | 16 dB                      |
|         | 2000 - 3000 MHz | 15 dB                      |

In each frequency band, 3 peak values up to 4 dB lower are allowed

## Voltage:

| Voltage Test Dielectric |
|-------------------------|
| 2 kV DC                 |

## Screening:

| Element | Frequency [MHz] | Min. Screening Attenuation |
|---------|-----------------|----------------------------|
|         | 100 - 1000 MHz  | 75 dB                      |

C

|                  |   |
|------------------|---|
| Screening Class: | C |
|------------------|---|

## Transfer Impedance:

| Transfer Impedance |
|--------------------|
| Max. 40 mOhm/m     |

## Temperature Range

|                          |               |
|--------------------------|---------------|
| Installation Temp Range: | -5 to +50 °C  |
| Operating Temp Range:    | -40 to +70 °C |
| Storage Temp Range:      | -40 to +70 °C |

## Mechanical Characteristics

|  |                          |
|--|--------------------------|
| Min Bend Radius (Wo Pulling Strength): | 35 mm                    |
| Crush Resistance:                      | Max. 1% (load of 700N) N |
| Adhesion Dielectric:                   | No shrinkback N          |

## Standards

|                     |                         |
|---------------------|-------------------------|
| ISO/IEC Compliance: | IEC 1196                |
| CENELEC Compliance: | EN 50117 and EN 50117-1 |

## History

## Product Variants

| Part Number     | Color | Put-Up Type | Length |
|-----------------|-------|-------------|--------|
| H126A00.00300   | WHITE | Reel        | 300 m  |
| H126A00.00500   | WHITE | Reel        | 500 m  |
| H126A00.00B100  | WHITE | Flat Box    | 100 m  |
| H126A00.00U250  | WHITE | UnReel      | 250 m  |
| H126A00.03300   | BLACK | Reel        | 300 m  |
| H126A00.03500   | BLACK | Reel        | 500 m  |
| H126A00.039999  | BLACK | Reel        | 299 m  |
| H126A00.03U250  | BLACK | UnReel      | 250 m  |
| H126A00.099999  | WHITE | Reel        | 999 m  |
| H126A00.09B9999 | WHITE | Flat Box    | 249 m  |
| H126A00.10B9999 | BLACK | Flat Box    | 249 m  |
| H126A00.00300   |       |             |        |

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