



## DK6000 data cable U/UTP Cat 6 Eca PVC 23AWG

Category-6 and Eca Euroclass data cable, U/UTP type (Unfoiled), with copper conductor and PVC sheath, white colour (RAL 9010).

Supplied in a 305m dispenser box.

|                     |               |
|---------------------|---------------|
| <b>Ref.</b>         | 2199          |
| <b>Logical ref.</b> | CAT6P305W     |
| <b>EAN13</b>        | 8424450021996 |

### Other features

|               |          |
|---------------|----------|
| <b>Colour</b> | White    |
| <b>Length</b> | 305.00 m |

### Packing

|            |       |
|------------|-------|
| <b>Box</b> | 305 m |
|------------|-------|

### Physical data

|                            |             |
|----------------------------|-------------|
| <b>Net weight</b>          | 40.00 g     |
| <b>Gross weight</b>        | 40.00 g     |
| <b>Width</b>               | 6.00 mm     |
| <b>Height</b>              | 1,000.00 mm |
| <b>Depth</b>               | 6.00 mm     |
| <b>Main product weight</b> | 36.00 g     |

### Highlights

- U/UTP Unfoiled UTP Cable
- Solid copper inner conductor (23AWG)
- Compatible with PoE/PoE+ (Power over Ethernet) technology, allowing the cable to power

network devices

- PE (Polyethylene) copper conductor insulation, 0.95mm thick
- PVC (polyvinyl chloride) outer sheath, 0.50mm thick and 6.2mm diameter
- 72% nominal speed

## Discover

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### Category 6

Data cable category Cat 6 complies with the standard for Gigabit Ethernet and it is backwards compatible, with the standards of the inferior categories (Cat 5/5e and Cat 3). Category 6 evolves over category 5E, allowing to achieve transmission frequencies of up to 250 MHz (in each pair) and 1 Gbps of throughput. It includes characteristics and specifications to avoid crosstalk and noise. This type of data cable can be used in 10BASE-T, 100BASE-T and 1000BASE-T (Gigabit Ethernet) compliant systems.

Our category 6 cables are characterized:

- Comply with TIA/EIA-568B.2-1
- Crucifix type padding
- Transfer rate up to 1Gbps
- Frequency range of up to 250 MHz and up to 400MHz in some references
- Includes rip cord to make it easier to strip the cable
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 9.38 ohms/100m

### Compatibility of RJ45 connectors with Televes data cables:

| Reference         | 219602        | 219701 | 219910 | 212201 | 2123 | 212302 | 212305 | 212310 | 212101 | 219302 | 219312 | 219322 | 219102 | 212330 |
|-------------------|---------------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Female connectors | 209901/209907 | OK     | OK     | OK     | OK   | OK     | OK     | OK     | X      | X      | X      | X      | X      | OK     |
|                   | 209905        | OK     | OK     | OK     | OK   | OK     | OK     | OK     | X      | X      | X      | X      | X      | OK     |
|                   | 209921/209925 | OK     | OK     | OK     | OK   | OK     | OK     | OK     | X      | X      | OK     | X      | X      | OK     |
|                   | 209903        | OK*    | OK*    | OK*    | OK*  | OK*    | OK*    | OK*    | OK     | X      | X      | X      | X      | OK*    |
|                   | 209923        | OK*    | OK*    | OK*    | OK*  | OK*    | OK*    | OK*    | OK     | OK     | OK*    | OK     | **     | OK*    |
|                   | 209501        | OK*    | OK*    | OK*    | OK*  | OK*    | OK*    | OK*    | OK     | OK     | OK*    | OK     | **     | OK*    |
| Male connectors   | 209902        | OK     | OK     | OK     | OK   | OK     | OK     | OK     | X      | X      | X      | X      | X      | OK     |
|                   | 209961/209962 | OK     | OK     | OK     | OK   | OK     | OK     | OK     | X      | X      | X      | X      | X      | OK     |
|                   | 209904        | OK*    | OK*    | OK*    | OK*  | OK*    | OK*    | OK*    | OK     | X      | X      | X      | X      | OK*    |
|                   | 209906        | OK     | OK     | OK     | OK   | OK     | OK     | OK     | X      | X      | X      | X      | X      | OK     |
|                   | 209965/209966 | OK     | OK     | OK     | OK   | OK     | OK     | OK     | X      | X      | X      | X      | X      | OK     |
|                   | 209922        | OK*    | OK*    | OK*    | OK*  | OK*    | OK*    | OK*    | X      | X      | OK     | X      | X      | OK*    |
| 209924            | OK*           | OK*    | OK*    | OK*    | OK*  | OK*    | OK*    | OK*    | OK     | OK*    | OK     | **     | OK*    |        |

OK Compatible

OK\* Compatible, but there are better choices

X Incompatible

\*\* Mechanical compatibility

## Mounting details

### DETAIL VIEW OF THE DATA CABLE SECTION

- A. Inner conductor
- B. Inner conductor isolation
- C. Crucifix Filler
- D. Outer sheath
- E. Rip cord



## Technical specifications : Ref. 2199

|                              |               |              |       |       |       |        |        |        |        |           |          |         |         |         |         |
|------------------------------|---------------|--------------|-------|-------|-------|--------|--------|--------|--------|-----------|----------|---------|---------|---------|---------|
| Type                         |               | U/UTP        |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Euroclass                    |               | Eca          |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Categorie                    |               | Cat 6        |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Transmission bandwidth       |               | 250MHz       |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Transfer rate                |               | 1Gbps        |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Conductor Diameter           | mm            | 0.55         |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Conductor Material           |               | Solid copper |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Conductor type AWG           |               | 23           |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Conductor isolation Diameter | mm            | 0.95         |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Conductor isolation Material |               | Polyethylene |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Crucifix filler              |               | Yes          |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Outer sheath Diameter        | mm            | 6.2          |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Outer sheath Material        |               | PVC          |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Outer sheath Thickness       | mm            | 0.5          |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Rip cord                     |               | Yes          |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Spark Test                   | Vac           | 3000         |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Nominal impedance            | $\Omega$      | 100          |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Conductor resistance         | $\Omega/100m$ | < 9.38       |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Nominal speed                | %             | 72           |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Working voltage              | V             | 300          |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Operating temperature        | $^{\circ}C$   | -30 ... 70   |       |       |       |        |        |        |        |           |          |         |         |         |         |
| Frequencies                  |               | 0.772 MHz    | 1 MHz | 4 MHz | 8 MHz | 10 MHz | 16 MHz | 20 MHz | 25 MHz | 31.25 MHz | 62.5 MHz | 100 MHz | 125 MHz | 200 MHz | 250 MHz |
| Attenuation (max.)           | dB/100m       | --           | 2     | 3.8   | 5.3   | 6      | 7.6    | 8.5    | 9.5    | 10.7      | 15.4     | 19.8    | --      | 29      | 32.8    |
| Attenuation (typ.)           | dB/100m       | 1.8          | 2     | 3.8   | 5.4   | 6      | 7.6    | 8.5    | 9.6    | 10.7      | 15.5     | 19.9    | 22.4    | 29.2    | 33      |
| ACR-N (typ.)                 | dB/100m       | --           | 72.3  | 61.5  | 55.5  | 53.3   | 48.6   | 46.3   | 43.8   | 41.2      | 32       | 24.5    | --      | 10.8    | 5.5     |
| PS ACR-N (typ.)              | dB/100m       | --           | 70.3  | 59.5  | 53.5  | 51.3   | 46.6   | 44.3   | 41.8   | 39.2      | 30       | 22.5    | --      | 8.8     | 3.5     |
| Return losses (typ.)         | dB            | --           | 20    | 23    | 24.5  | 25     | 25     | 25     | 24.3   | 23.6      | 21.5     | 20.1    | --      | 18      | 17.3    |