



## DK6000 data cable U/UTP Cat 6 Fca PE 24AWG

Category-6 and Fca Euroclass data cable, U/UTP type (Unfoiled), with copper conductor and PE sheath, black colour.

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<b>Ref.</b>	212201
<b>Logical ref.</b>	CAT6PE305W
<b>EAN13</b>	8424450183298

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### Other features

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<b>Colour</b>	Black
<b>Length</b>	305.00 m

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### Packaging info

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<b>Box</b>	305 m
<b>Pallet</b>	7320 m

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### Physical data

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<b>Net weight</b>	35.00 g
<b>Gross weight</b>	39.00 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>	35.00 g

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### Highlights

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- U/UTP Unfoiled UTP Cable
- Solid copper inner conductor (24AWG)
- Compatible with PoE/PoE+ (Power over Ethernet) technology, allowing the cable to power network devices
- PE (Polyethylene) copper conductor insulation, 0.95mm diameter

- PE (Polyethylene) outer sheath, 0.51mm thick and 6.2mm diameter
- 72% nominal speed
- Certified according to the applicable standards as defined in the available declarations of conformity and performance

## 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	219901	219910	212201	2123	212302	212305	212310	212101	219302	219312	219313	219322
Female connectors	209901/209907	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209905	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209921/209925	OK	OK	OK	OK	OK	OK	OK	OK	X	X	OK	OK	X
	209926	OK	OK	OK	OK	OK	OK	OK	OK	X	X	OK	OK	X
	209903	OK*	OK*	OK	OK*	OK*	OK*	OK*	OK*	OK	X	X	X	X
	209923	OK*	OK*	OK	OK*	OK*	OK*	OK*	OK*	OK	OK	OK*	OK*	OK
	209929/209501	OK*	OK*	OK	OK*	OK*	OK*	OK*	OK*	OK	OK	OK*	OK*	OK
Male connectors	209902	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209961/209962	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209904	OK*	OK*	OK	OK*	OK*	OK*	OK*	OK*	OK	X	X	X	X
	209906	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209965/209966	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209922	OK*	OK*	OK	OK*	OK*	OK*	OK*	OK*	X	X	OK	OK	X
	209924	OK*	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. 212201

<b>Model</b>																			DK6000
<b>Type</b>																			U/UTP
<b>Euroclass</b>																			Fca
<b>Categorie</b>																			Cat 6
<b>Transmission bandwidth</b>																			250MHz
<b>Transfer rate</b>																			1Gbps
<b>Conductor Diameter</b>		mm																	0.51
<b>Conductor Material</b>																			Solid copper
<b>Conductor type AWG</b>																			24
<b>Conductor isolation Diameter</b>		mm																	0.95
<b>Conductor isolation Material</b>																			Polyethylene
<b>Crucifix filler</b>																			Yes
<b>Outer sheath Diameter</b>		mm																	6.2
<b>Outer sheath Material</b>																			PE
<b>Outer sheath Thickness</b>		mm																	0.55
<b>Rip cord</b>																			Yes
<b>Spark Test</b>		Vac																	3000
<b>Nominal impedance</b>		$\Omega$																	100
<b>Conductor resistance</b>		Ohm/100m																	< 9.38
<b>Nominal speed</b>		%																	72
<b>Working voltage</b>		V																	300
<b>Operating temperature</b>		$^{\circ}\text{C}$																	-40 ... 80
<b>Frequencies</b>			1 MHz	4 MHz	8 MHz	10 MHz	16 MHz	20 MHz	25 MHz	31.25 MHz	62.5 MHz	100 MHz	200 MHz	250 MHz					
<b>Attenuation (max.)</b>	dB/100m	2	3.8	5.3	6	7.6	8.5	9.5	10.7	15.4	19.8	29	32.8						
<b>NEXT (min.)</b>	dB/100m	74.3	65.3	60.8	59.3	56.2	54.8	53.3	51.9	47.4	44.3	39.8	38.3						
<b>PS NEXT (min.)</b>	dB/100m	72.3	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	36.3						
<b>ACR-N (min.)</b>	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						
<b>PS ACR-N (min.)</b>	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						
<b>ACR-F (min.)</b>	dB/100m	67.8	55.8	49.7	47.8	43.7	41.8	39.8	37.9	31.9	27.8	21.8	19.8						
<b>PS ACR-F (min.)</b>	dB/100m	64.8	52.8	46.7	44.8	40.7	38.8	36.8	34.9	28.9	24.8	18.8	16.8						
<b>Return losses (min.)</b>	dB	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18	17.3						