



*Televes reserves the right to modify the product*

## DK6000 data cable

### U/UTP Cat 6 Fca LSFH 23AWG

Category-6 and Fca Euroclass data cable, U/UTP type (Unfoiled), with CCA conductor and LSFH sheath (Low Smoke Free of Halogen), white colour (RAL 9010).

Supplied in a 305m dispenser box.

**Ref.219910**

**Art.Nr**

CAT6AL305V

**EAN13**

8424450167915

## Highlights

- U/UTP-type data cable Unfoiled UTP
- Copper-clad aluminium inner conductor (23AWG)

## Main features

- PE (Polyethylene) conductor insulation, 0.95mm diameter
- LSFH (Low Smoke Free of Halogen) outer sheath, 0.50mm thick and 6.2mm diameter
- 72% nominal speed

## Discover

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.

They are characterized for:

- Comply with TIA/EIA-568B.2-1
- Crucifix type padding
- Transfer rate up to 1Gbps
- Frequency range of up to 250 MHz
- Includes rip cord to make it easier to strip the cable
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 117 ohms/Km

## Compatibility of RJ45 connectors with Televes data cables:

Reference		219602	219701	219502	2199	212201	2123	212302	212305	212310	212101	219302	219102	219312	219322
Female Connectors	209905	✓	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗
	209901	✓	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗
	209921	✓	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✓	✗
	209903	✓*	✓*	✓	✓*	✓*	✓*	✓*	✓*	✓*	✓	✗	✗	✗	✗
	209923	✓*	✓*	✓	✓*	✓*	✓*	✓*	✓*	✓*	✓	✓	✗	✓*	✓
Male Connectors	209902	✓	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗
	209904	✓*	✓*	✓	✓*	✓*	✓*	✓*	✓*	✓*	✓	✗	✗	✗	✗
	209922	✓*	✓*	✗	✓*	✓*	✓*	✓*	✓*	✓*	✗	✗	✗	✓	✗
	209924	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓	✗	✓*	✓

✓ Compatible

✓\* Compatible, but there are better choices

✗ Incompatible

## Technical specifications

Type		U/UTP																			
Euroclass		Fca																			
Categorie		Cat 6																			
Transmission bandwidth		250MHz																			
Transfer rate		1Gbps																			
Conductor Diameter	mm	0.585																			
Conductor Material		Copper-clad aluminium																			
Conductor type AWG		23																			
Conductor isolation Diameter	mm	0.95																			
Conductor isolation Material		Polyethylene																			
Crucifix filter		Yes																			
Outer sheath Diameter	mm	6.2																			
Outer sheath Material		LSFH																			
Outer sheath Thickness	mm	0.5																			
Rip cord		Yes																			
Spark Test	Vac	3000																			
Nominal impedance	Ω	100																			
Nominal speed	%	72																			
Working voltage	V	300																			
Operating temperature	°C	-25 ... 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 (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			
NEXT	dB/100m		76	74.3	65.3	60.8	59.3	56.3	54.8	53.3	51.9	47.4	44.3	42.8	39.8	38.3					
PS-NEXT	dB/100m		74	72.3	63.3	58.8	57.3	54.3	52.8	51.3	49.9	45.4	42.3	40.8	37.8	36.3					
ELFEXT	dB/100m		70	67.8	55.7	49.7	47.8	43.7	41.7	39.8	37.9	31.8	27.8	25.9	21.7	19.8					
PS-ELFEXT	dB/100m		67	64.8	52.7	46.7	44.8	40.7	38.7	36.8	34.9	28.8	24.8	22.9	18.7	16.8					
Return losses	dB/100m				--	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	19.4	18	17.3			