



## 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.

<b>Ref.</b>	219910
<b>Logical ref.</b>	CAT6AL305V
<b>EAN13</b>	8424450167915

### Other features

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

### Packaging info

<b>Box</b>	305 m
<b>Pallet</b>	7320 m
<b>Pallet</b>	9150 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>	29.00 g

### Highlights

- U/UTP-type data cable Unfoiled UTP

- Copper-clad aluminium inner conductor (23AWG)
- 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

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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. 219910

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 filler		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	$\Omega$	100												
Conductor resistance	$\Omega/100m$	< 9.38												
Nominal speed	%	72												
Working voltage	V	300												
Operating temperature	$^{\circ}C$	-25 ... 70												
Frequencies		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	
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	2	3.8	5.3	5.8	7.4	8.2	9.2	10.3	15	19.5	28.2	31.1	
NEXT (min.)	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	
NEXT (typ.)	dB/100m	86.7	75.2	72	68	67	64.6	61.2	61.5	54.4	48.3	47.3	44.8	
PS NEXT (min.)	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	
PS NEXT (typ.)	dB/100m	83.4	72.5	69.6	65.1	64.2	62.2	58.4	57.9	52.3	46.9	44.6	42.9	
ACR-N (min.)	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	
ACR-N (typ.)	dB/100m	84.7	71.4	66.7	62.4	60.1	56.7	52.9	52.2	41.4	31.5	23.2	17.1	
PS ACR-N (min.)	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	
PS ACR-N (typ.)	dB/100m	81.4	68.7	64.4	59.4	57.1	54.5	49.9	48.5	39	30	20.1	14.8	
ACR-F (min.)	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	
ACR-F (typ.)	dB/100m	82.1	69.1	62.5	60.7	57.1	55.2	50.5	48.8	37.9	34.7	29.2	32.2	
PS ACR-F (min.)	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	
PS ACR-F (typ.)	dB/100m	79.6	66.4	60.2	57.9	54.6	53.1	48.8	45.6	36.5	32.6	27.1	30.5	
Return losses (min.)	dB	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18	17.3	
Return losses	dB	26.4	28.9	30.5	31.5	34.1	35.7	34.7	34.9	31.7	31.4	26.4	24.4	