



DK6000 data cable U/UTP Cat 6 Dca LSFH 24AWG

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

Supplied in a 305m dispenser box.

Ref.	212310
Logical ref.	CAT6L305V
EAN13	8424450188408

Other features

Colour	White
Length	305.00 m

Packaging info

Box	305 m
Pallet	7320 m

Physical data

Net weight	34.00 g
Gross weight	37.00 g
Width	6.00 mm
Height	1,000.00 mm
Depth	6.00 mm
Main product weight	34.00 g

Highlights

- 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, 0.92mm diameter
- LSFH (Low Smoke Free of Halogen) outer sheath, 0.52mm thick and 6.0mm diameter
- 72% nominal speed
- Certified by Intertek (ETL Verified Mark)

Discover

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. 212310

Model		DK6000												
Type		U/UTP												
Euroclass		Dca												
Euroclass: Smoke Production		s2												
Euroclass: Flaming droplets		d2												
Euroclass: Acidity		a1												
Categorie		Cat 6												
Transmission bandwidth		250MHz												
Transfer rate		1Gbps												
Conductor Diameter	mm	0.51												
Conductor Material		Solid copper												
Conductor type AWG		24												
Conductor isolation Diameter	mm	0.92												
Conductor isolation Material		Polyethylene												
Crucifix filler		Yes												
Outer sheath Diameter	mm	6												
Outer sheath Material		LSFH												
Outer sheath Thickness	mm	0.52												
Rip cord		Yes												
Spark Test	Vac	3000												
Nominal impedance	Ω	100												
Conductor resistance	Ohm/100m	< 9.38												
Nominal speed	%	72												
Working voltage	V	300												
Operating temperature	$^{\circ}\text{C}$	-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	1.9	3.7	5.2	5.8	7.4	8.3	9.2	10.4	14.8	19	27.4	30.7	
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	86.8	76.9	73.9	69.8	66.5	64.6	61.8	60.1	54.8	52.3	49	46.3	
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	84.3	74.9	70.9	67	63.5	61.8	59.7	58.3	54.8	50.9	45.3	42.4	
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	85	73.3	68	62.6	58.1	54.3	52.1	50	40	34.1	20.6	15.7	
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	82.4	71.3	64.7	60.1	55.1	52.4	50.6	47.2	39	31	18.6	13.7	
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	75.3	62.5	56.9	55.1	52.2	51.3	53.6	47.9	40.9	37.3	30.9	27.9	
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	73.4	60.7	55	53.4	51.1	49.9	46.3	44.1	39.9	31.7	25.7	24.6	
Return losses (min.)	dB	20	23	24.5	25	25	25	24.3	30.6	21.5	20.1	18	17.3	
Return losses	dB	25	26.1	28.4	28.3	29.5	28.1	29	24.5	29.4	26	23.2	22	