



DK6000 data cable F/UTP Cat 6 Dca LSFH 23AWG

Category-6 and Dca Euroclass data cable, F/UTP type (Foiled cable, Unfoiled pairs), with copper conductor and LSFH sheath (Low Smoke Free of Halogen), purple colour (RAL 4008).

Ref. 212101	
Logical ref. CAT6L500V	
EAN13 8424450186510	

Other features		Physical data							
Colour Violet		Net weight	54.00 g						
Length	500.00 m	Gross weight	57.00 g						
		Width	7.00 mm						
		Height	1,000.00 mm						
Packaging info		Depth	7.00 mm						
Reel	500 m	Main product	54.00 g						
Pallet 13500 m		weight							

Highlights

- F/UTP Cable
- Solid copper inner conductor (23AWG)
- Compatible with PoE/PoE+ (Power over Ethernet) technology, allowing the cable to power network devices
- Aluminium foil + polyester between foil and outer cable sheath



- CuSn ground cable
- LSFH (Low Smoke Free of Halogen) outer sheath
- 72% nominal speed
- Certified according to the applicable standards as defined in the available declarations of conformity and performance

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:

Televes[®]

Ref	erence	219602	219701	219901	219910	212201	2123	212302	212305	212310	212101	219302	219312	219313	219322
Female connectors	209901/209907	ОК	ОК	ОК	ОК	ОК	OK	ОК	ОК	OK	Х	х	Х	Х	Х
	209905	ОК	ОК	ОК	OK	ОК	OK	ОК	OK	OK	Х	Х	Х	Х	Х
	209921/209925	ОК	ОК	ОК	OK	ОК	OK	ОК	OK	OK	Х	Х	OK	OK	Х
	209926	ОК	ОК	ОК	OK	ОК	OK	ОК	OK	OK	Х	Х	ОК	OK	Х
	209903	OK*	OK*	ОК	OK*	OK*	OK*	OK*	OK*	OK*	ОК	Х	Х	Х	Х
	209923	OK*	OK*	ОК	OK*	OK*	OK*	OK*	OK*	OK*	ОК	ОК	OK*	OK*	OK
	209929/209501	OK*	OK*	ОК	OK*	OK*	OK*	OK*	OK*	OK*	ОК	ОК	OK*	OK*	ОК
	209902	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	OK	Х	Х	Х	Х	Х
	209961/209962	ОК	ОК	ОК	OK	ОК	OK	ОК	OK	OK	Х	Х	Х	Х	Х
	209904	OK*	OK*	ОК	OK*	OK*	OK*	OK*	OK*	OK*	ОК	Х	Х	Х	Х
Male connectors	209906	ОК	ОК	ОК	ОК	ОК	OK	ОК	ОК	OK	Х	Х	Х	Х	Х
	209965/209966	ОК	OK	ОК	OK	ОК	OK	ОК	OK	OK	Х	Х	Х	Х	Х
	209922	OK*	OK*	ОК	OK*	OK*	OK*	OK*	OK*	OK*	Х	Х	ОК	OK	Х
	209924	OK*	OK*	ОК	OK*	OK*	OK*	OK*	OK*	OK*	OK*	ОК	OK*	OK*	ОК

OK Compatible

OK* Compatible, but there are better choices X Incompatible ** Mechanical compatibility

What is the PoE technology?

PoE (Power over Ethernet) technology enables the simultaneous transmission of power and data over the same Ethernet network cable, eliminating the need for separate power supplies. Currently, there are three main standards: IEEE 802.3af (PoE), IEEE 802.3at (PoE+), and IEEE 802.3bt (PoE++/4PPoE). The latter defines two additional types (Type 3 and Type 4) whit higher power levels, making four PoE levels in total.

The three aspects that differentiate the different types of PoE are:

- 1. Maximum PSE (Powr Sourcing Equipments) Power: Indicates the maximum amount of electrical power that can be supplied by an equipment over the Ethernet cable.
- 2. Power for the PD (Powered Device): This is the electrical power that can be received by the device powered by the cable.
- 3. Number of Twisted Pairs Used: Refers to how many twisted pairs in the Ethernet cable are used to deliver electrical power.

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Recommended uses according to PoE type:

4. Type 1: IP phones, basic IP camaras. low-demand Wi-Fi access points, sensors or simple IoT devices.



- 5. Type 2: Dual band Wi-Fi access points, IP motion camaras (PTZ), IP video phones, alarm systemns.
- 6. Type 3: Wi-Fi 6 / Wi-Fi 6E access points, heated PTZ camaras, multimedia terminals, video conferencing equipment.
- 7. Type 4: Monitors or touch screens, desktops, high-performance network equipment.

Devices that support a certain type of PoE can also be powered by a higher type, offering greater versatility and scalability in installations.

Main advantages of PoE technology in installations:

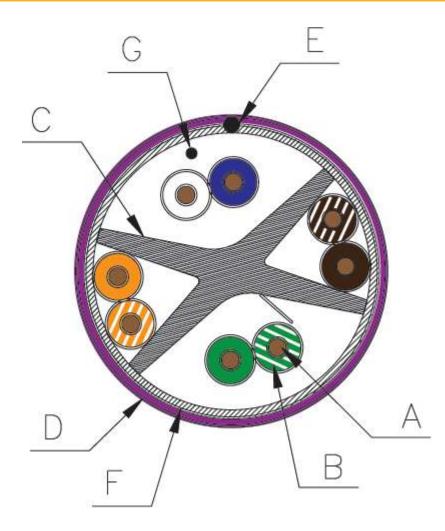
- 8. Quick and cost-effective installation by using the same cable for power and data transmission.
- 9. Greater installation flexibility as there is no need to rely on auxiliary power sockets.
- 10. More efficient management and optimised maintenance thanks to the monitoring and administration of the power supply of all equipment from a single point.
- 11. Cost reduction by avoiding electrical conduits and external power supplies.
- 12. Increased safety by minimising electrical risks in the installation, thanks to the use of low voltage.

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
- F. Shielding foil
- G. Drain wire







Technical specifications : Ref. 212101

Model		DK6000											
Туре		F/UTP											
Euroclass		Dca											
Euroclass: Smoke Production		s2											
Euroclass: Flaming droplets		d2											
Euroclass: Acidity		a1											
Categorie		Cat 6											
Transmission bandwidth		250MHz											
Transfer rate		1Gbbs											
Conductor Diameter	in	0.022											
Conductor Material		Solid copper											
Conductor type AWG													
Conductor isolation Diameter	in	23 0.045											
Conductor isolation Material		0.045 Polyethylene											
Crucifix filler													
Shielding foil of pairs		Yes Aluminium - Dekoster											
Outer sheath Diameter	in	Aluminium + Polyester 0.283											
Outer sheath Material		0.283											
Outer sheath Thickness	in	0.024											
Rip cord	- 10	 Yes											
Spark Test	Vac												
Nominal impedance		3000											
Conductor resistance	Ohm/100							9.38					
conductor resistance	m						*	9.50					
Nominal speed	%						7	2					
Working voltage	V						30	00					
Operating temperature	°F						-13 .	158					
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	3.7	5.2	5.8	7.3	8.2	9.2	10.3	14.6	18.6	26.5	29.8
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	88.9	78.7	77.7	71.7	69.3	71.1	65.8	63.9	58.6	54	48.7	45.8
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	86.7	76.3	75	69.8	67.2	69	63.7	61.4	56.5	52.8	46	42.6
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	87	75.1	72.7	66.2	62	62.9	56.7	53.8	44.1	35.4	22.2	16
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	84.7	72.7	70.1	64.2	60	60.9	54.6	51.2	42	34.3	19.6	13
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	81	70.4	67.2	66.9	63.7	59	55.1	53.5	49.3	43.9	40.5	35.9
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	79.2	67.8	63.8	63.2	61.6	57	52.9	50.5	46	43.5	37.5	34.8
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	26.8	28.5	35.1	36.2	41.8	39.9	40.3	39.4	35.2	32	32.2	30.1