



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

Colour	Violet
Length	500.00 m

Packaging info

Reel	500 m
Pallet	13500 m

Physical data

Net weight	54.00 g
Gross weight	57.00 g
Width	7.00 mm
Height	1,000.00 mm
Depth	7.00 mm
Main product weight	54.00 g

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:

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

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) with higher power levels, making four PoE levels in total.

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

1. Maximum PSE (Power 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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4. Type 1: IP phones, basic IP cameras, low-demand Wi-Fi access points, sensors or simple IoT devices.

5. Type 2: Dual band Wi-Fi access points, IP motion cameras (PTZ), IP video phones, alarm systems.
6. Type 3: Wi-Fi 6 / Wi-Fi 6E access points, heated PTZ cameras, 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.

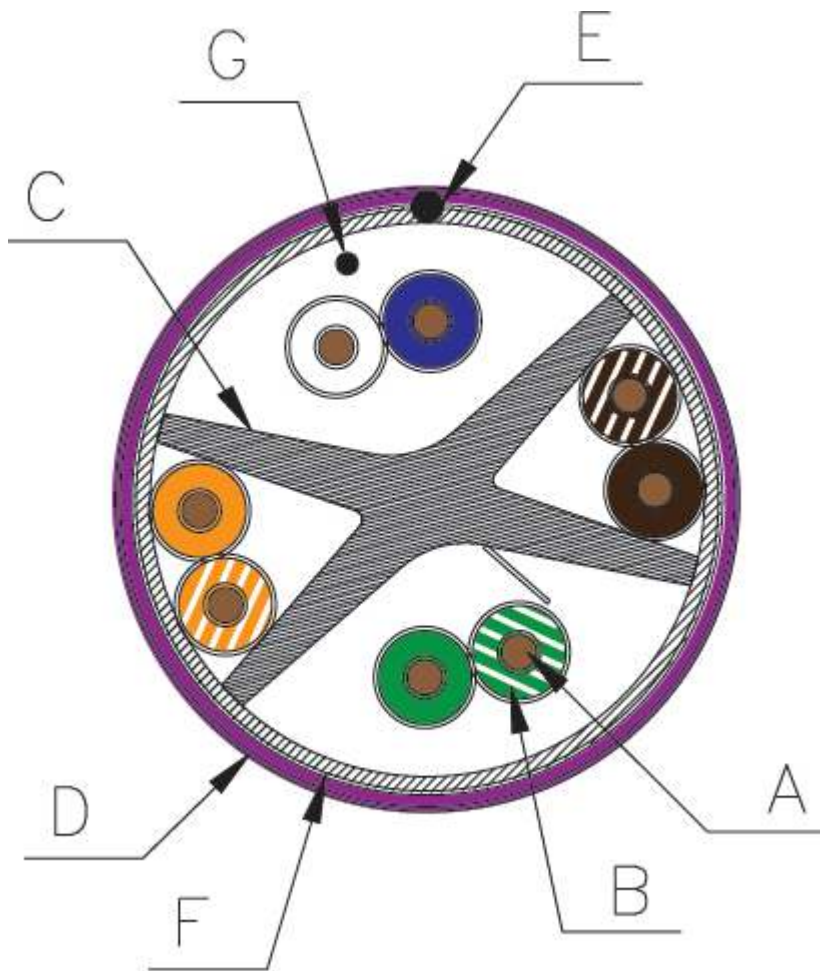
Main advantages of PoE technology in installations:

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

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