



DK7000 data cable S/FTP Cat 7 Cca LSFH 23AWG

Category-7 and Cca Euroclass data cable, S/FTP type (Foiled pairs and foiled cable), with copper conductor and LSFH sheath (Low Smoke Free of Halogen), white colour (RAL 9010).

It achieves a bandwidth up to 1000 MHz (higher than the 600 MHz specified by the standard).

This cable, due to its technical characteristics, is recommended for PoE++ applications (Type 3 and Type 4).

Ref.	219102
Logical ref.	CAT7L500W
EAN13	8424450253069

Other features

Colour	White
Length	500.00 m

Packaging info

Reel	500 m
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Physical data

Net weight	54.00 g
Gross volume	0.08 dm ³
Gross weight	59.00 g
Width	7.00 mm
Height	1,000.00 mm
Depth	7.00 mm
Main product weight	54.00 g

Highlights

- S/FTP data Cable
- Solid copper inner conductor (23AWG)
- Compatible with PoE/PoE+/PoE++ (Power over Ethernet) technology, allowing the cable to power network devices
- Aluminium+polyester shielding foil
- Tinned copper outer shielding braid
- LSFH (Low Smoke Free of Halogen) outer sheath
- 76% nominal speed
- Certified according to the applicable standards as defined in the available declarations of conformity and performance

Discover

Category 7

Data cable category Cat 7 complies with the standard for 10 Gigabit Ethernet and it is backwards compatible, with the standards of the inferior categories (Cat 6A/6/5e and Cat 3). Category 7 evolves over category 6A, allowing to achieve transmission frequencies of up to 600 MHz (in each pair) and 10 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, 1000BASE-T and 10GBASE-T compliant systems.

Our category 7 cables are characterized for:

- Comply with: EN 50173-1:2011, ISO/IEC 11801-1:2017, IEC 61156-5:2009, EN 50288-4-1:2013, EN 50288-4-2:2013
- Transfer rate up to 10Gbps
- Frequency range of up to 1000 MHz (higher than the 600 MHz specified by the standard)
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 93,8 ohms/Km

Compatibility of RJ45 connectors with Televes data cables:

Reference	CAT 6							CAT 6A				CAT 7	CAT 7A	
	212201	212330	2123	212302	212305	212310	212101	219302	219312	219322	219332	219102	219202	
Female connectors	209901/209907	OK	OK	OK	OK	OK	OK	X	X	X	X	X	X	X
	209905	OK	OK	OK	OK	OK	OK	X	X	X	X	X	X	X
	209921/209925	OK	OK	OK	OK	OK	OK	X	X	OK	X	OK	X	X
	209926	OK	OK	OK	OK	OK	OK	X	X	OK	X	OK	X	X
	209903	OK*	OK*	OK*	OK*	OK*	OK*	OK	X	X	X	X	X	X
	209923	OK*	OK*	OK*	OK*	OK*	OK*	OK	OK	OK*	OK	OK*	**	**
	209929/209501	OK*	OK*	OK*	OK*	OK*	OK*	OK	OK	OK*	OK	OK*	**	**
Male connectors	209902	OK	OK	OK	OK	OK	OK	X	X	X	X	X	X	X
	209961/209962	OK	OK	OK	OK	OK	OK	X	X	X	X	X	X	X
	209904	OK*	OK*	OK*	OK*	OK*	OK*	OK	X	X	X	X	X	X
	209906	OK	OK	OK	OK	OK	OK	X	X	X	X	X	X	X
	209965/209966	OK	OK	OK	OK	OK	OK	X	X	X	X	X	X	X
	209922	OK*	OK*	OK*	OK*	OK*	OK*	X	X	OK	X	OK	X	X
	209924	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:

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

to deliver electrical power.

Standard	Type of PoE		Maximum PSE Power	Power for the PD	No. of Pairs Used
IEEE 802.3af	Type 1	PoE	15.4W	12.95W	2
IEEE 802.3at	Type 2	PoE+	30W	25.5W	2
IEEE 802.3bt	Type 3	PoE++	60W	51W	4
	Type 4	4PPoE	90-100W	71W	4

Recommended uses according to PoE type:

- Type 1: IP phones, basic IP cameras, low-demand Wi-Fi access points, sensors or simple IoT devices.
- Type 2: Dual band Wi-Fi access points, IP motion cameras (PTZ), IP video phones, alarm systems.
- Type 3: Wi-Fi 6 / Wi-Fi 6E access points, heated PTZ cameras, multimedia terminals, video conferencing equipment.
- Type 4: Monitors or touch screens, desktops, high-performance network equipment.

Devices compatible with a specific type of PoE can also be powered using a higher type, which provides greater versatility and scalability in installations.

The recommended data cables and connectors for Types 3 and 4 are CAT6A and above with shielding. This recommendation is based on their better ability to dissipate the heat generated during the transmission of electrical power.

CAT6A UTP cables and connectors are technically compatible with PoE++ technology, but they may present limitations over distances greater than 55 m. Since they lack shielding, thermal dissipation is less efficient, which can cause voltage drops along the run and affect the proper operation of the powered device. This also happens with CAT5e and CAT6; they are compatible with PoE++ but not recommended for distances over 55 m.

Main advantages of PoE technology in installations:

- Quick and cost-effective installation by using the same cable for power and data transmission.
- Greater installation flexibility as there is no need to rely on auxiliary power sockets.
- More efficient management and optimised maintenance thanks to the monitoring and administration of the power supply of all equipment from a single point.
- Cost reduction by avoiding electrical conduits and external power supplies.
- 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. Shielding foil
- D. Outer shielding braid
- E. Outer sheath



