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DK6000A data cable

U/FTP Cat 6A Cca LSFH

Category-6A and Cca Euroclass data cable, U/FTP type (Foiled pairs), with copper conductor and LSFH sheath (Low Smoke Free of Halogen), white colour (RAL 9010).

Ref.219301	305m (Wood reel)
Art.Nr	CAT6AL305W
EAN13	8424450198667
Ref.219302	500m (Wood reel)
Art.Nr	CAT6AL500W
EAN13	8424450214749

Highlights

- U/FTP Unfoiled FTP Cable (foiled pairs)
- Solid copper inner conductor (23AWG)
- Compatible with PoE/PoE+ (Power over Ethernet) technology, allowing the cable to power network devices

Main features

- PE (Polyethylene) copper conductor insulation, 1.30mm diameter
- Aluminium foil + polyester between foil and outer cable sheath
- CuSn ground cable
- LSFH (Low Smoke Free of Halogen) outer sheath, 0.70mm thick and 6.9mm diameter
- 79% nominal speed

Discover

Data cable category Cat 6A (augmented) has its origins on Cat 6 and it is backwards compatible, with the standards of the inferior categories (Cat 6/5e and Cat 3). Category 6A evolves over category 6, allowing to achieve transmission frequencies of up to 500 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.

They are characterized for:

- Comply with TIA/EIA-568B.2-1
- Transfer rate up to 10Gbps
- Frequency range of up to 500 MHz
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 93,8 ohms/Km

Compatibility of RJ45 connectors with Televes data cables:

Reference	219602	219701	219502	219601	219910	212201	2123	212302	212305	212310	212101	219301	219302	219101	
Female Connectors	209901	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗
	209921	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗
	209903	✓*	✓*	✓	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓	✗	✗	✗
	209923	✓*	✓*	✓	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓	✓	✓	✗
Male Connectors	209902	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗
	209904	✓*	✓*	✓	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓	✗	✗	✗

✓ Compatible

✓* Compatible, but there are better choices

✗ Incompatible

Technical specifications

Type		U/FTP															
Euroclass		Cca															
Euroclass: Smoke Production		s1a															
Euroclass: Flaming droplets		d1															
Euroclass: Acidity		a1															
Categorie		Cat 6A															
Transmission bandwidth		500MHz															
Transfer rate		10Gbps															
Conductor Diameter	mm	0.55															
Conductor Material		Solid copper															
Conductor type AWG		23															
Conductor isolation Diameter	mm	1.3															
Conductor isolation Material		Polyethylene															
Crucifix filter		No															
Shielding foil of pairs		Aluminium + Polyester															
Drain wire Diameter	mm	0.4															
Drain wire Material		Tinned copper (CuSn)															
Outer sheath Diameter	mm	6.9															
Outer sheath Material		LSFH															
Outer sheath Thickness	mm	0.7															
Rip cord		No															
Spark Test	Vac	3000															
Nominal impedance	Ω	100															
Nominal speed	%	79															
Working voltage	V	125															
Operating temperature	°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	300 MHz	400 MHz	500 MHz	
Attenuation (typ.)	dB/100m		2.1	3.8	5.3	5.9	7.5	8.4	9.4	10.5	15	19.1	27.6	31.1	34.3	40.1	45.3
NEXT	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	37.1	35.3	33.8	

PS-NEXT	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	35.1	33.3	31.8		
ELFEXT	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	18.3	15.8	13.8		
PS-ELFEXT	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	15.3	12.8	10.8		
Return losses	dB/100m			20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18	17.3	16.8	15.9	15.2	