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DK6000 data cable

U/UTP Cat 6 Fca LSFH 23AWG

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

Supplied in a 305m dispenser box.

Ref.219910

Art.Nr

CAT6AL305V

EAN13

8424450167915

Highlights

- U/UTP-type data cable Unfoiled UTP
- Copper-clad aluminium inner conductor (23AWG)

Main features

- PE (Polyethylene) conductor insulation, 0.95mm diameter
- LSFH (Low Smoke Free of Halogen) outer sheath, 0.50mm thick and 6.2mm diameter
- 72% nominal speed

Discover

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.

They are characterized for:

- Comply with TIA/EIA-568B.2-1
- Crucifix type padding
- Transfer rate up to 1Gbps
- Frequency range of up to 250 MHz
- Includes rip cord to make it easier to strip the cable
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 117 ohms/Km

Compatibility of RJ45 connectors with Televes data cables:

Reference	219602	219701	219502	2199	212201	2123	212302	212305	212310	212101	219302	219102	219312	219322	
Female Connectors	209905	✓	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗
	209901	✓	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗
	209921	✓	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✓	✗
	209903	✓*	✓*	✓	✓*	✓*	✓*	✓*	✓*	✓*	✓	✗	✗	✗	✗
	209923	✓*	✓*	✓	✓*	✓*	✓*	✓*	✓*	✓*	✓	✓	✗	✓*	✓
Male Connectors	209902	✓	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗
	209904	✓*	✓*	✓	✓*	✓*	✓*	✓*	✓*	✓*	✓	✗	✗	✗	✗
	209922	✓*	✓*	✗	✓*	✓*	✓*	✓*	✓*	✓*	✗	✗	✗	✓	✗
	209924	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓	✗	✓*	✓	✓

✓ Compatible

✓* Compatible, but there are better choices

✗ Incompatible

Technical specifications

Type		U/UTP																
Euroclass		Fca																
Categorie		Cat 6																
Transmission bandwidth		250MHz																
Transfer rate		1Gbps																
Conductor Diameter	mm	0.585																
Conductor Material		Copper-clad aluminium																
Conductor type AWG		23																
Conductor isolation Diameter	mm	0.95																
Conductor isolation Material		Polyethylene																
Crucifix filter		Yes																
Outer sheath Diameter	mm	6.2																
Outer sheath Material		LSFH																
Outer sheath Thickness	mm	0.5																
Rip cord		Yes																
Spark Test	Vac	3000																
Nominal impedance	Ω	100																
Nominal speed	%	72																
Working voltage	V	300																
Operating temperature	$^{\circ}\text{C}$	-25 ... 70																
Frequencies		0.772 MHz	1 MHz	4 MHz	8 MHz	10 MHz	16 MHz	20 MHz	25 MHz	31.25 MHz	62.5 MHz	100 MHz	125 MHz	200 MHz	250 MHz			
Attenuation (typ.)	dB/100m			1.8	2	3.8	5.4	6	7.6	8.5	9.6	10.7	15.5	19.9	22.4	29.2	33	
NEXT	dB/100m	76	74.3	65.3	60.8	59.3	56.3	54.8	53.3	51.9	47.4	44.3	42.8	39.8	38.3			
PS-NEXT	dB/100m	74	72.3	63.3	58.8	57.3	54.3	52.8	51.3	49.9	45.4	42.3	40.8	37.8	36.3			
ELFEXT	dB/100m	70	67.8	55.7	49.7	47.8	43.7	41.7	39.8	37.9	31.8	27.8	25.9	21.7	19.8			
PS-ELFEXT	dB/100m	67	64.8	52.7	46.7	44.8	40.7	38.7	36.8	34.9	28.8	24.8	22.9	18.7	16.8			
Return losses	dB/100m		--	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	19.4	18	17.3		