



## DK6000A data cable U/UTP Cat 6A PVC 23AWG

Category-6A data cable, U/UTP type (Unfoiled), with copper conductor and PVC sheath, violet colour. It achieves a bandwidth up to 650 MHz (higher than the 500 MHz specified by the standard).

Supplied in a 500m wood reel.

<b>Ref.</b>	219313
<b>Logical ref.</b>	CAT6APVC500V
<b>EAN13</b>	8424450322543

### Other features

<b>Colour</b>	Violet
<b>Length</b>	500.00 m

### Packaging info

<b>Reel</b>	500 m
<b>Pallet</b>	8000 m

### Physical data

<b>Net weight</b>	52.00 g
<b>Gross weight</b>	54.00 g
<b>Width</b>	7.00 mm
<b>Height</b>	1,000.00 mm
<b>Depth</b>	7.00 mm
<b>Main product weight</b>	52.00 g

### Highlights

- U/UTP Unfoiled Cable
- Solid copper inner conductor (23AWG)

- Compatible with PoE/PoE+ (Power over Ethernet) technology, allowing the cable to power network devices
- PE (Polyethylene) copper conductor insulation, 1.10mm diameter
- PVC outer sheath, 0.50mm thick and 7.3mm diameter
- 72% nominal speed

## 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

## Technical specifications : Ref. 219313

Model		DK6000A																
Type		U/UTP																
Categorie		Cat 6A																
Transmission bandwidth		650MHz																
Transfer rate		10Gbps																
Conductor Diameter	mm	0.55																
Conductor Material		Solid copper																
Conductor type AWG		23																
Conductor isolation Diameter	mm	1.1																
Conductor isolation Material		Polyethylene																
Crucifix filler		Yes																
Outer sheath Diameter	mm	7.3																
Outer sheath Material		PVC																
Outer sheath Thickness	mm	0.5																
Rip cord		Yes																
Spark Test	Vac	3000																
Nominal impedance	Ω	100																
Conductor resistance	Ohm/100m	< 9.38																
Nominal speed	%	72																
Working voltage	V	300																
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	600 MHz	650 MHz
Attenuation (max.)	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	--	--
Attenuation (typ.)	dB/100m	1.9	3.7	5.2	5.8	7.5	8.3	9.4	10.5	15	19.1	27.4	30.6	33.6	39.1	44.2	48.7	51
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	37.1	35.3	34	--	--
NEXT (typ.)	dB/100m	83.7	80.6	75.1	71	68.2	65.3	63.9	59.5	56	51.7	46	49.2	47.9	43.1	39.7	33.9	31.1
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	35.1	33.3	32	--	--
PS NEXT (typ.)	dB/100m	82.5	78.8	72.6	68.8	67	64.5	63.2	59	54.9	52.8	44.5	46.7	45	41.7	35.9	32	29
ACR-N (min.)	dB/100m	72.2	61.5	55.5	53.4	48.7	46.4	43.9	41.4	32.4	25.2	12.2	7.2	2.8	-4.8	-12	--	--
ACR-N (typ.)	dB/100m	81.8	77	70	65	60.7	56.8	54.4	48.9	41	32.6	19.8	18.6	14.9	5.6	-3.3	-14.8	-19.9
PS ACR-N (min.)	dB/100m	70.2	59.5	53.5	51.4	46.7	44.4	41.9	39.4	30.4	23.2	10.2	5.2	0.8	-6.8	-14	--	--
PS ACR-N (typ.)	dB/100m	80.6	75.1	67.5	63	59.8	56.4	53.8	48.4	39.9	31.7	18.5	16.5	13.2	4.6	-6.3	-15	-20
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	18.3	15.8	14	--	--
ACR-F (typ.)	dB/100m	80.7	68.9	62.7	61.3	59.1	58.8	57.9	56.1	45.4	47.9	33.6	37.1	35.8	28.5	28.2	26	25.4
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	15.3	12.8	11	--	--
PS ACR-F (typ.)	dB/100m	78.6	67	61	59.7	57.1	56	54.4	53.8	43.1	46.2	32.7	34.9	33.7	27.3	26.5	23.4	22.8
Return losses (min.)	dB	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18	17.3	16.8	15.9	15	--	--
Return losses	dB	27.4	30	32.4	30.6	33.1	33	31.5	31.5	28.3	30.1	29.2	24.8	23.3	23.1	20.1	18.2	15.2