Televes reserves the right to modify the product

DK6000 data cable U/UTP Cat 6 Eca PVC 23AWG

Category-6 and Eca Euroclass data cable, U/UTP type (Unfoiled), with copper conductor and PVC sheath, white colour (RAL 9010).

Supplied in a 305m dispenser box.

Ref.2199

Art.Nr	CAT6P305W
EAN13	8424450021996

Highlights

- U/UTP Unfoiled UTP 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, 0.95mm thick
- PVC (polyvinyl chloride) outer sheath, 0.50mm thick and 6.2mm 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:

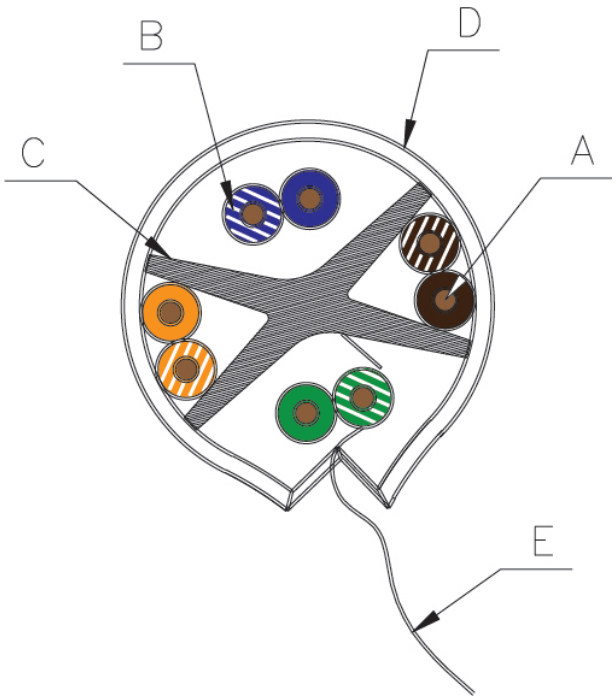
Reference		219602	219701	219910	212201	2123	212302	212305	212310	212101	219302	219312	219322	219102	212330
Female connectors	209901/209907	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209905	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209921/209925	OK	OK	OK	OK	OK	OK	OK	OK	X	X	OK	X	X	OK
	209903	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK	X	X	X	X	OK*
	209923	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK	OK	OK*	OK	**	OK*
	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	OK
	209961/209962	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209904	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK	X	X	X	X	OK*
	209906	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209965/209966	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209922	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK*	X	X	OK	X	X	OK*
	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

Additional information

(Click to see the picture)

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

Televes®

Technical specifications

Type		U/UTP													
Euroclass		Eca													
Categorie		Cat 6													
Transmission bandwidth		250MHz													
Transfer rate		1Gbps													
Conductor Diameter	mm	0.55													
Conductor Material		Solid copper													
Conductor type AWG		23													
Conductor isolation Diameter	mm	0.95													
Conductor isolation Material		Polyethylene													
Crucifix filler		Yes													
Outer sheath Diameter	mm	6.2													
Outer sheath Material		PVC													
Outer sheath Thickness	mm	0.5													
Rip cord		Yes													
Spark Test	Vac	3000													
Nominal impedance	Ω	100													
Conductor resistance	Ω/100m	< 9.38													
Nominal speed	%	72													
Working voltage	V	300													
Operating temperature	°C	-30 ... 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 (max.)	dB/100m	--	2	3.8	5.3	6	7.6	8.5	9.5	10.7	15.4	19.8	--	29	32.8
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
ACR-N (typ.)	dB/100m	--	72.3	61.5	55.5	53.3	48.6	46.3	43.8	41.2	32	24.5	--	10.8	5.5
PS ACR-N (typ.)	dB/100m	--	70.3	59.5	53.5	51.3	46.6	44.3	41.8	39.2	30	22.5	--	8.8	3.5
Return losses (typ.)	dB	--	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	--	18	17.3