

Televes reserves the right to modify the product

DK6000 data cable U/UTP Cat 6 Fca PE 24AWG

Category-6 and Fca Euroclass data cable, U/UTP type (Unfoiled), with copper conductor and PE sheath, black colour.

Supplied in a 305m dispenser box.

Ref.212201

Art.Nr

CAT6PE305W

EAN13

8424450183298

Highlights

- U/UTP Unfoiled UTP Cable
- Solid copper inner conductor (24AWG)
- Compatible with PoE/PoE+ (Power over Ethernet) technology, allowing the cable to power network devices

Main features

- PE (Polyethylene) copper conductor insulation, 0.95mm diameter
- PE (Polyethylene) outer sheath, 0.51mm 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.

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 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	X	X	X	X	X	OK
	209905	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209921/209925	OK	OK	OK	OK	OK	OK	OK	X	X	OK	X	X	OK
	209903	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*
	209501	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK	OK	OK*	OK	**	OK*
Male connectors	209902	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209961/209962	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209904	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK	X	X	X	X	OK*
	209906	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209965/209966	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209922	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 Compatible

OK* Compatible, but there are better choices

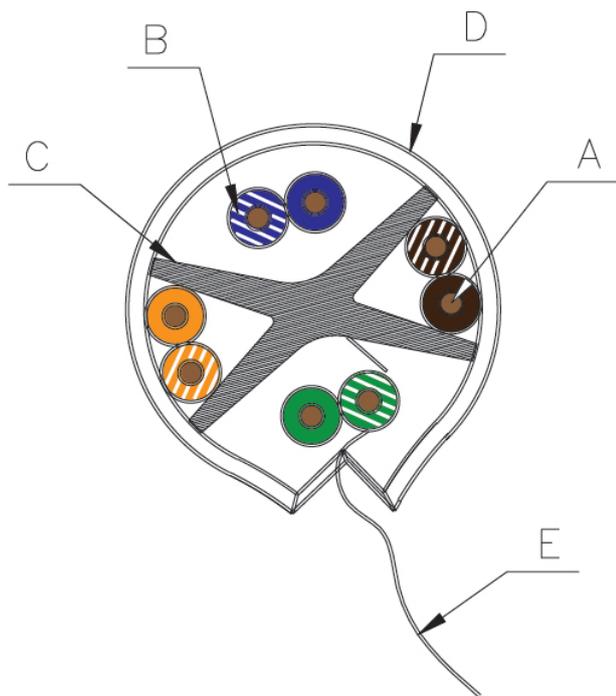
X Incompatible

** 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

Technical specifications

Type		U/UTP															
Euroclass		Fca															
Categorie		Cat 6															
Transmission bandwidth		250MHz															
Transfer rate		1Gbps															
Conductor Diameter	mm	0.51															
Conductor Material		Solid copper															
Conductor type AWG		24															
Conductor isolation Diameter	mm	0.95															
Conductor isolation Material		Polyethylene															
Crucifix filler		Yes															
Outer sheath Diameter	mm	6.2															
Outer sheath Material		PE															
Outer sheath Thickness	mm	0.55															
Rip cord		Yes															
Spark Test	Vac	3000															
Nominal impedance	Ω	100															
Conductor resistance	$\Omega/100m$	< 9.38															
Nominal speed	%	72															
Operating temperature	$^{\circ}C$	-40 ... 80															
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				
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		
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		
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		
ACR-N (min.)	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 (min.)	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		
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		
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		
Return losses (min.)	dB			20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18	17.3		