



Televes reserves the right to modify the product

DK6000 data cable F/UTP Cat 6 Dca LSFH 23AWG

Category-6 and Dca Euroclass data cable, F/UTP type (Foiled cable, Unfoiled pairs), with copper conductor and LSFH sheath (Low Smoke Free of Halogen), purple colour (RAL 4008).

Supplied in a 500m wood reel.

Ref.212101

Art.Nr

CAT6L500V

EAN13

8424450186510

Highlights

- F/UTP cable Foiled 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 diameter
- Aluminium foil + polyester between foil and outer cable sheath
- CuSn ground cable (0.4mm)
- LSFH (Low Smoke Free of Halogen) outer sheath, 0.60mm thick and 7.2mm 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

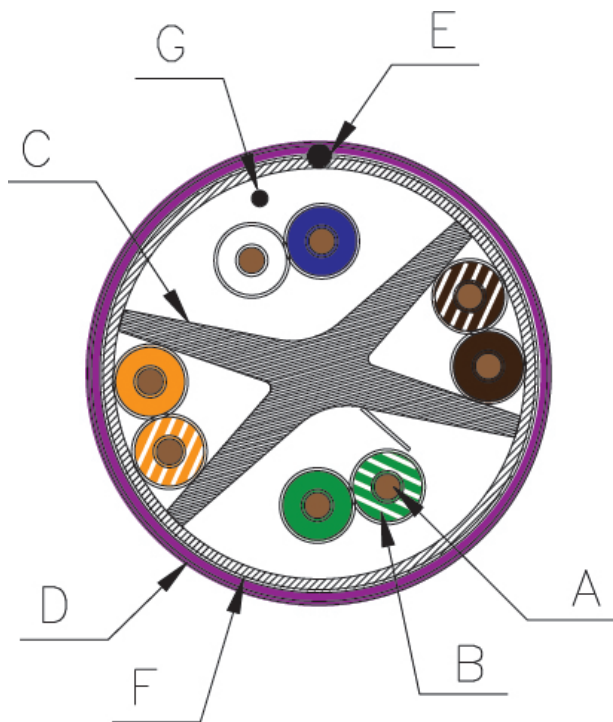
X Incompatible

** 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
- F. Shielding foil
- G. Drain wire

Technical specifications

Type		F/UTP																
Euroclass		Dca																
Euroclass: Smoke Production		s2																
Euroclass: Flaming droplets		d2																
Euroclass: Acidity		a1																
Categorie		Cat 6																
Transmission bandwidth		250MHz																
Transfer rate		1Gbps																
Conductor Diameter	in	0.022																
Conductor Material		Solid copper																
Conductor type AWG		23																
Conductor isolation Diameter	in	0.045																
Conductor isolation Material		Polyethylene																
Crucifix filler		Yes																
Shielding foil of pairs		Aluminium + Polyester																
Outer sheath Diameter	in	0.283																
Outer sheath Material		LSFH																
Outer sheath Thickness	in	0.024																
Rip cord		Yes																
Spark Test	Vac	3000																
Nominal impedance	Ω	100																
Conductor resistance	Ω/100m	< 9.38																
Nominal speed	%	72																
Operating temperature	°F	-13 ... 158																
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		
Attenuation (typ.)	dB/100m				2	3.7	5.2	5.8	7.3	8.2	9.2	10.3	14.6	18.6	26.5	29.8		
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			
NEXT (typ.)	dB/100m			88.9	78.7	77.7	71.7	69.3	71.1	65.8	63.9	58.6	54	48.7	45.8			

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	
PS NEXT (typ.)	dB/100m		86.7	76.3	75	69.8	67.2	69	63.7	61.4	56.5	52.8	46	42.6	
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	
ACR-N (typ.)	dB/100m		87	75.1	72.7	66.2	62	62.9	56.7	53.8	44.1	35.4	22.2	16	
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	
PS ACR-N (typ.)	dB/100m		84.7	72.7	70.1	64.2	60	60.9	54.6	51.2	42	34.3	19.6	13	
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	
ACR-F (typ.)	dB/100m		81	70.4	67.2	66.9	63.7	59	55.1	53.5	49.3	43.9	40.5	35.9	
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	
PS ACR-F (typ.)	dB/100m		79.2	67.8	63.8	63.2	61.6	57	52.9	50.5	46	43.5	37.5	34.8	
Return losses (min.)	dB		20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18	17.3	
Return losses (typ.)	dB		26.8	28.5	35.1	36.2	41.8	39.9	40.3	39.4	35.2	32	32.2	30.1	