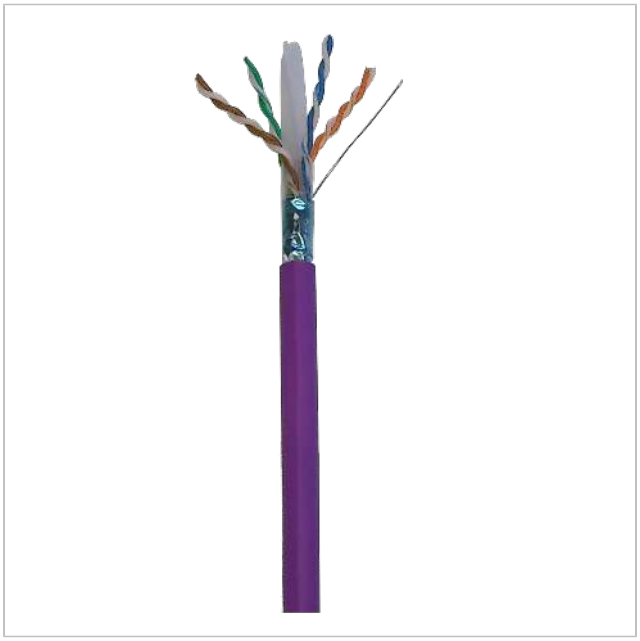


DK6000 data cable F/UTP Cat 6 Dca LSFH 23AWG

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
Logical ref.	CAT6L500V
EAN13	8424450186510

Other features

Colour	Violet
Length	500.00 m

Packaging info

Reel	500 m
Pallet	13500 m

Physical data

Net weight	54.00 g
Gross weight	57.00 g
Width	7.00 mm
Height	1,000.00 mm
Depth	7.00 mm
Main product weight	54.00 g

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:

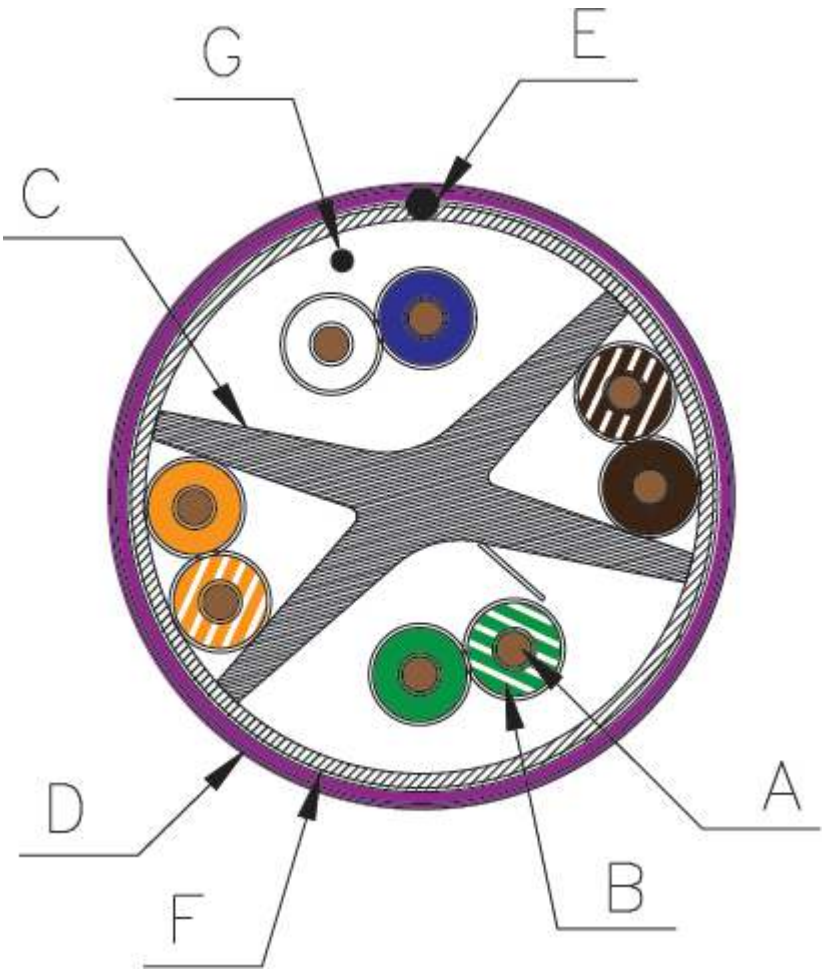
Reference		219602	219701	219901	219910	212201	2123	212302	212305	212310	212101	219302	219312	219313	219322
Female connectors	209901/209907	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209905	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209921/209925	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	OK	OK	X
	209926	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	OK	OK	X
	209903	OK*	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*	OK
	209929/209501	OK*	OK*	OK	OK*	OK*	OK*	OK*	OK*	OK*	OK	OK	OK*	OK*	OK
Male connectors	209902	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209961/209962	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209904	OK*	OK*	OK	OK*	OK*	OK*	OK*	OK*	OK*	OK	X	X	X	X
	209906	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209965/209966	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209922	OK*	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

OK Compatible
OK* Compatible, but there are better choices
X Incompatible
** Mechanical compatibility

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


G
E
C
D
F
B
A

Televes®

Technical specifications : Ref. 212101

Model		DK6000											
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	mm	0.55											
Conductor Material		Solid copper											
Conductor type AWG		23											
Conductor isolation Diameter	mm	1.14											
Conductor isolation Material		Polyethylene											
Crucifix filler		Yes											
Shielding foil of pairs		Aluminium + Polyester											
Outer sheath Diameter	mm	7.2											
Outer sheath Material		LSFH											
Outer sheath Thickness	mm	0.6											
Rip cord		Yes											
Spark Test	Vac	3000											
Nominal impedance	Ω	100											
Conductor resistance	Ohm/100 m	< 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
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	dB	26.8	28.5	35.1	36.2	41.8	39.9	40.3	39.4	35.2	32	32.2	30.1