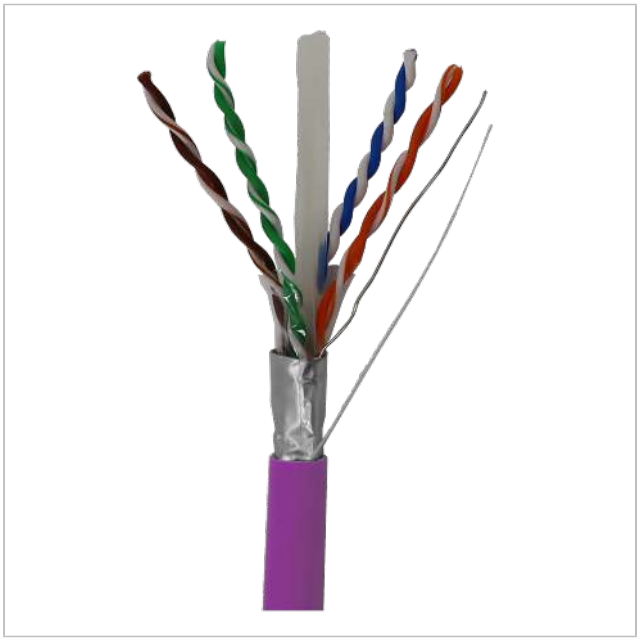


DK6000A data cable F/UTP Cat 6A Dca LSFH 23AWG

Category-6A and Dca Euroclass data cable, F/UTP type (Foiled cable, Unfoiled pairs), with copper conductor and LSFH sheath (Low Smoke Free of Halogen), violet colour.
It achieves a bandwidth up to 650 MHz (higher than the 500 MHz specified by the standard).

Ref.	219322
Logical ref.	CAT6ALF500V
EAN13	8424450251430

Other features

Colour	Violet
Length	500.00 m

Packaging info

Reel	500 m
Pallet	8000 m

Physical data

Net weight	54.00 g
Gross weight	56.00 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 cable with unfoiled pairs)
- 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, 1.14mm diameter
- Aluminium foil + polyester between ground cable and outer cable sheath
- CuSn ground cable
- LSFH (Low Smoke Free of Halogen) outer sheath, 0.50mm thick and 7.3mm diameter
- 72% nominal speed
- Certified according to the applicable standards as defined in the available declarations of conformity and performance

Discover

Category 6A

Data cable category Cat 6A (augmented) has its origins on Cat 6 and it is backwards compatible, with the standards of the inferior categories (Cat 6/5e and Cat 3). Category 6A evolves over category 6, allowing to achieve transmission frequencies of up to 500 MHz (in each pair) and 10 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, 1000BASE-T and 10GBASE-T compliant systems.

Our category 6A cables are characterized for:

- Comply with TIA/EIA-568B.2-1
- Transfer rate up to 10Gbps
- Frequency range of up to 650 MHz (higher than the 500 MHz specified by the standard)
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 9.38 ohms/100m

Compatibility of RJ45 connectors with Televes data cables:

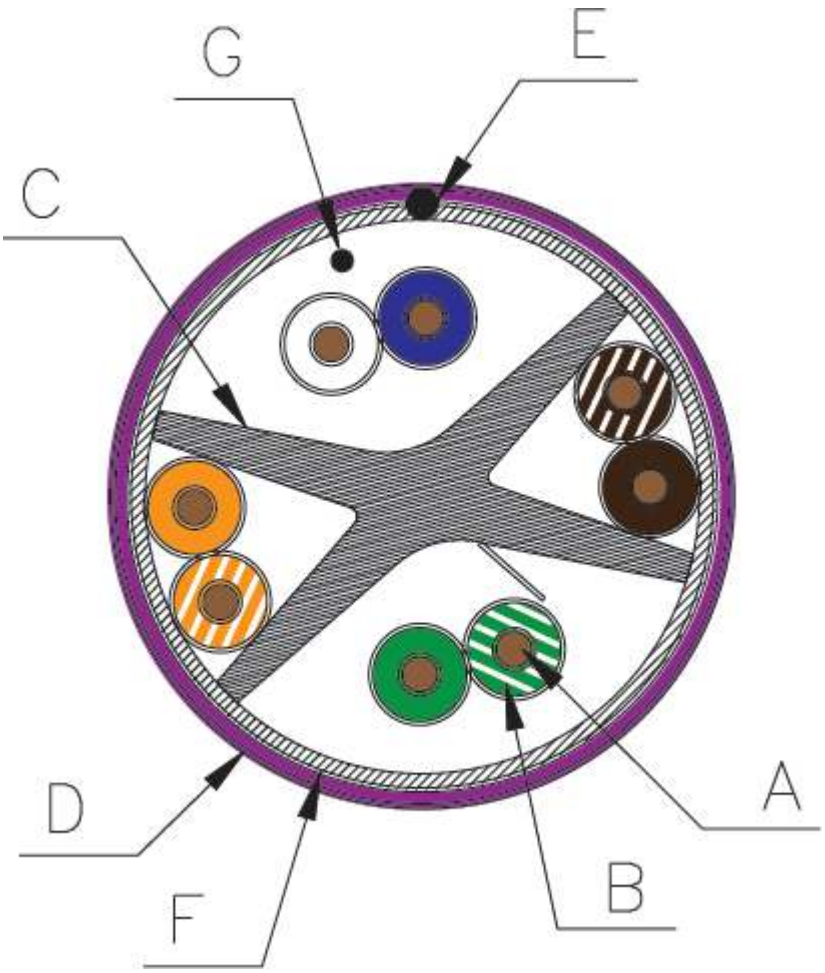
Reference		219602	219701	219901	219910	212201	2123	212302	212305	212310	212101	219302	219312	219313	219322
Female connectors	209901/209907	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209905	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X
	209921/209925	OK	OK	OK	OK	OK	OK	OK	OK	OK	X	X	OK	OK	X
	209926	OK	OK	OK	OK	OK	OK	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. 219322

Model		DK6000A																
Type		F/UTP																
Euroclass		Dca																
Euroclass: Smoke Production		s2																
Euroclass: Flaming droplets		d2																
Euroclass: Acidity		a1																
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	1.14																
Conductor isolation Material		Polyethylene																
Crucifix filler		Yes																
Shielding foil of pairs		Aluminium + Polyester																
Drain wire Diameter	mm	0.4																
Drain wire Material		Tinned copper (CuSn)																
Outer sheath Diameter	mm	7.3																
Outer sheath Material		LSFH																
Outer sheath Thickness	mm	0.5																
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	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	2	3.8	5.2	5.8	7.5	8.2	9.2	10.2	14.5	18.7	27	30.5	34	39.9	44.1	49.7	52
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	86.2	81.2	74.7	72.6	72.4	68.3	66.1	64.9	60.1	55.3	50.2	49.4	48.5	43.6	40.4	33.7	31.9
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	84.4	79.7	72.2	70.5	69.8	66.1	63.7	62.4	57.9	52.7	46.9	46.6	45.3	40.4	36.3	31.8	30.5
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	84.2	77.4	69.4	66.5	64.8	59.8	56.5	54.2	44.8	35.9	22.4	18.2	14.2	3.7	-4.6	-16	-20.1
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	82.4	75.8	67	64.6	62.2	57.6	54.2	51.8	42.7	33.3	19.1	15.5	11.2	0.9	-8.5	-17.8	-21.2
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	80.2	68.5	63.5	62.3	62.8	65.3	58.9	53.1	48.5	40.8	37.1	34	34	28.7	29.4	31.3	25.9
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	15.3	12.8	11	--	--
PS ACR-F (typ.)	dB/100m	77.8	66.3	61.2	60.2	61.9	63.5	57.5	52.5	46.5	38.3	36.2	31.1	31.7	27.2	27.8	27	25.1
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	26.7	30.9	37.9	38.5	33.1	34.2	32.5	34.4	32.8	29.9	28	27.1	25.3	23.8	22.2	19.3	18.5