DK7000A data cable S/FTP Cat 7A Dca LSFH 23AWG

Category-7A and Dca Euroclass data cable, S/FTP type (Foiled pairs and foiled cable), with copper conductor and LSFH sheath (Low Smoke Free of Halogen), white colour (RAL 9010).
It achieves a bandwidth up to 1500 MHz (higher than the 1000 MHz specified by the standard).

Ref.	219202
Logical ref.	CAT7ALF500V
EAN13	8424450267530

Other features

Colour	White
Length	500.00 m

Packaging info

Reel	500 m
Pallet	9000 m

Physical data

Net weight	57.00 g
Gross weight	60.00 g
Width	8.00 mm
Height	1,000.00 mm
Depth	8.00 mm
Main product weight	57.00 g

Highlights

- S/FTP Foiled FTP Cable (foiled 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, 0.95mm diameter
- Aluminium+polyester shielding foil
- Tinned copper outer shielding braid
- LSFH (Low Smoke Free of Halogen) outer sheath, 0.70mm thick and 7.7mm diameter
- 79% nominal speed
- Certified according to the applicable standards as defined in the available declarations of conformity and performance

Discover

Category 7A

Data cable category Cat 7A complies with the standard for 10 Gigabit Ethernet and it is backwards compatible, with the standards of the inferior categories (Cat 6A/6/5e and Cat 7). Category 7A evolves over category 7, allowing to achieve transmission frequencies of up to 1000 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 7A cables are characterized:

- Comply with: EN 50173-1:2011, ISO/IEC 11801-1:2017, IEC 61156-5:2009, EN 50288-4-1:2013, EN 50288-4-2:2013
- Transfer rate up to 10Gbps
- Frequency range of up to 1500 MHz (higher than the 1000 MHz specified by the standard)
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 93,8 ohms/Km

Mounting details

DETAIL VIEW OF THE DATA CABLE SECTION

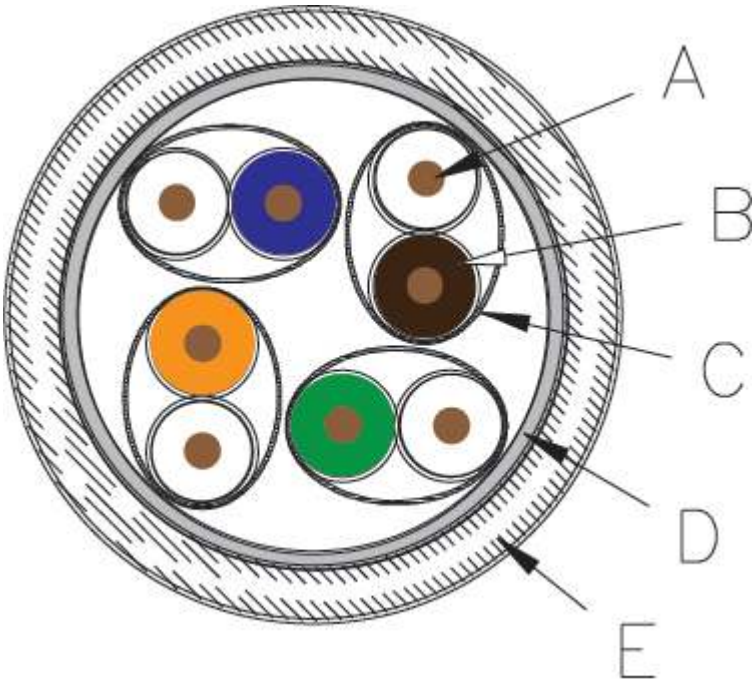
A. Inner conductor

B. Inner conductor isolation

C. Shielding foil

D. Outer shielding braid

E. Outer sheath



Televes®

Technical specifications : Ref. 219202

Model		DK7000A																			
Type		S/FTP																			
Euroclass		Dca																			
Euroclass: Smoke Production		s1a																			
Euroclass: Flaming droplets		d2																			
Euroclass: Acidity		a1																			
Categorie		Cat 7A																			
Transmission bandwidth		1500MHz																			
Transfer rate		10Gbps																			
Conductor Diameter	mm	0.58																			
Conductor Material		Solid copper																			
Conductor type AWG		23																			
Copper weight	kg/km	20.35																			
Conductor isolation Diameter	mm	1.43																			
Conductor isolation Material		Polyethylene																			
Crucifix filler		No																			
Shielding foil of pairs		Aluminium + Polyester																			
Outer shielding braid		Tinned copper (CuSn)																			
Outer sheath Diameter	mm	7.7																			
Outer sheath Material		LSFH																			
Outer sheath Thickness	mm	0.7																			
Rip cord		No																			
Spark Test	Vac	3000																			
Nominal impedance	Ω	100																			
Conductor resistance	Ohm/100 m	< 9.38																			
Nominal speed	%	79																			
Working voltage	V	125																			
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	800 MHz	1000 MHz	1200 MHz	1500 MHz
Attenuation (max.)	dB/100m	4	--	4.9	--	8	--	--	--	--	20.3	--	32.5	--	--	46.7	51.4	--	67.6	--	--
Attenuation (typ.)	dB/100m	2	3.5	--	5.4	6.9	7.7	8.7	9.8	14.1	17.9	25.6	28.7	31.5	37.2	42	46.4	54.1	60.7	69.7	75.4
NEXT (min.)	dB/100m	65	--	--	--	65	--	--	--	--	65	--	59.1	--	--	53.6	52.1	--	47.9	--	--
NEXT (typ.)	dB/100m	83.1	90.2	89.7	90.5	90.8	91.2	88.6	87.1	82.7	78.2	72.5	71.1	69.1	67.6	66.3	65	63.6	60.8	59.7	55.4
PS NEXT (min.)	dB/100m	62	--	--	--	62	--	--	--	--	62	--	56.1	--	--	50.6	49.1	--	44.9	--	--
PS NEXT (typ.)	dB/100m	81.8	87.7	87	87.4	87.9	88.1	86.2	85.3	80.4	76	70	68.8	67.3	66.1	64.4	63	62.5	58.7	58	55
ACR-N (min.)	dB/100m	61	--	--	--	57	--	--	--	--	44.7	--	26.7	--	--	6.9	0.7	--	-19.6	--	--
ACR-N (typ.)	dB/100m	81.1	86.7	84.8	85	83.9	83.5	79.8	77.2	68.5	60.1	46.6	42	37.2	30.5	24.4	18.7	9.7	-0.1	-5	-15
PS ACR-N (min.)	dB/100m	58	--	--	--	54	--	--	--	--	41.7	--	23.7	--	--	3.9	-2.3	--	-22.6	--	--
PS ACR-N (typ.)	dB/100m	79.9	84.2	82.1	82	81	80.4	77.4	76.3	66.1	57.9	44.2	39.7	35.3	28.9	22.6	16.6	8.5	-2.1	-6.9	-15.8
ACR-F (min.)	dB/100m	65	--	--	--	63	--	--	--	--	47.4	--	39.4	--	--	33.4	31.8	--	27.4	--	--
ACR-F (typ.)	dB/100m	81.5	85.3	88.2	88.4	84.7	82.5	82	79.9	77	74.2	66.2	66.5	63.7	57.7	50.7	55	48.7	39.9	21.5	18
PS ACR-F (min.)	dB/100m	62	--	--	--	60.3	--	--	--	--	44.4	--	36.4	--	--	30.4	28.8	--	24.4	--	--
PS ACR-F (typ.)	dB/100m	78.4	83	85.1	85.7	81.9	81	79.9	78.2	75.5	73	64.9	64.3	62	56.4	50.4	53.5	47.1	37.6	18.9	14
Return losses (min.)	dB	21	--	--	--	20	--	--	--	--	14	--	10	--	--	10	--	--	8	--	--
Return losses	dB	26	28.7	30.1	31.6	33.3	32.9	31.7	36.5	33.5	33.2	27.8	25.7	24.9	23	20.3	19.3	17.7	16.2	14	13