



## 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).

Supplied in a 500m wood reel.

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

## Discover

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### 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:

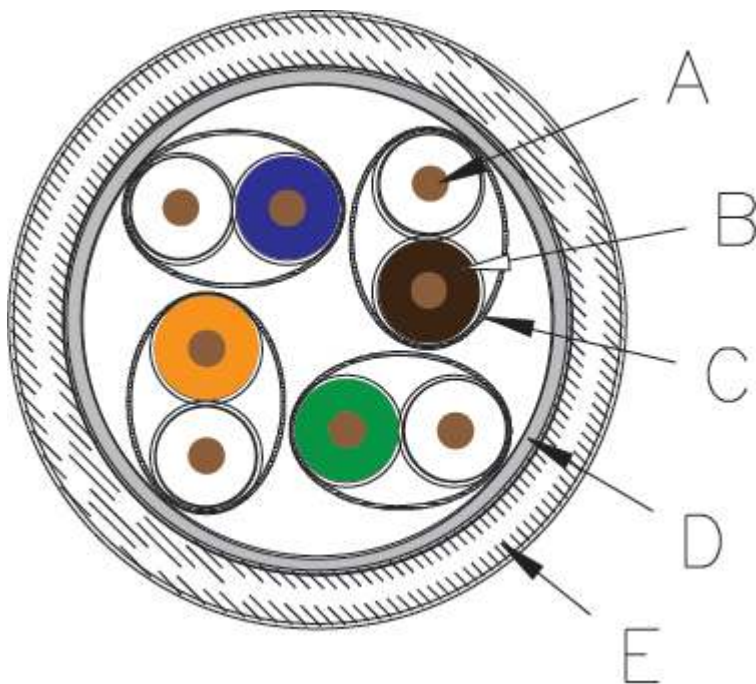
- Comply with: EN 50173-1:2011, ISO/IEC 11801-1:2017, IEC 61156-5:2009, EN 50288-4-1:2013, EN 50288-4-2:2013
- Transfer rate up to 10Gbps
- Frequency range of up to 1500 MHz (higher than the 1000 MHz specified by the standard)
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 93,8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

## Mounting details

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## DETAIL VIEW OF THE DATA CABLE SECTION

- A. Inner conductor
- B. Inner conductor isolation
- C. Shielding foil
- D. Outer shielding braid
- E. Outer sheath



### 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	Ω/100m	< 9.38																				
Nominal speed	%	79																				
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	