

DK7000 data cable S/FTP Cat 7 Cca LSFH 23AWG

Category-7 and Cca 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 1000 MHz (higher than the 600 MHz specified by the standard).
Supplied in a wood reel.

Ref.	219102
Logical ref.	CAT7L500W
EAN13	8424450253069

Other features

Colour	White
Length	500.00 m

Packing

Reel	500 m
-------------	-------

Physical data

Net weight	54.00 g
Gross weight	59.00 g
Width	7.00 mm
Height	1,000.00 mm
Depth	7.00 mm
Main product weight	54.00 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, 1.30mm diameter
- Aluminium+polyester shielding foil
- Tinned copper outer shielding braid
- LSFH (Low Smoke Free of Halogen) outer sheath, 0.70mm thick and 7.4mm diameter
- 79% nominal speed

Discover

Category 7

Data cable category Cat 7 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 3). Category 7 evolves over category 6A, allowing to achieve transmission frequencies of up to 600 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 7 cables are characterized for:

- 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 1000 MHz (higher than the 600 MHz specified by the standard)
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 93,8 ohms/Km

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	X	X	X	X	X	OK
	209905	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209921/209925	OK	OK	OK	OK	OK	OK	OK	X	X	OK	X	X	OK
	209903	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*
	209501	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK	OK	OK*	OK	**	OK*
Male connectors	209902	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209961/209962	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209904	OK*	OK*	OK*	OK*	OK*	OK*	OK*	OK	X	X	X	X	OK*
	209906	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209965/209966	OK	OK	OK	OK	OK	OK	OK	X	X	X	X	X	OK
	209922	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 Compatible

OK* Compatible, but there are better choices

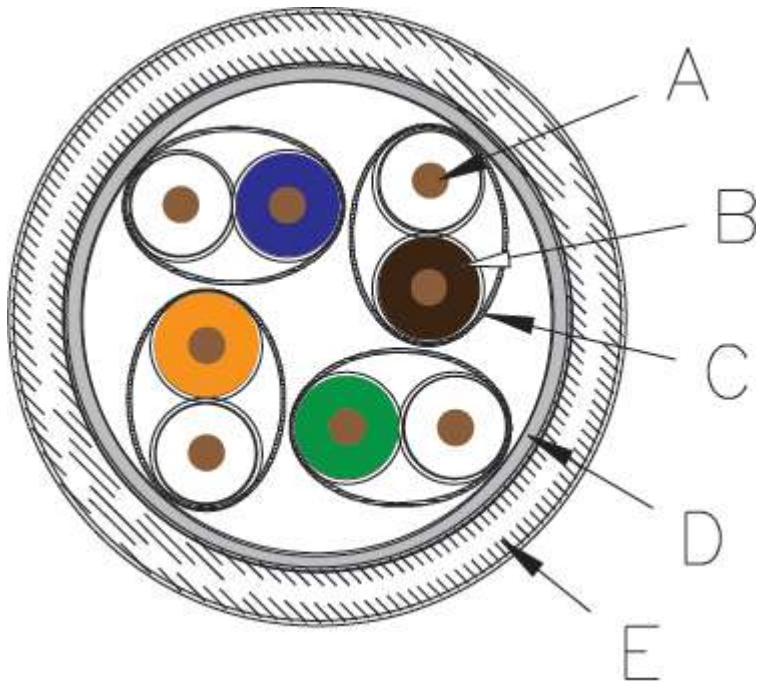
X Incompatible

** Mechanical compatibility

Mounting details

DETAIL VIEW OF THE DATA CABLE SECTION

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



Technical specifications : Ref. 219102

Model		DK7000																	
Type		S/FTP																	
Euroclass		Cca																	
Euroclass: Smoke Production		s1a																	
Euroclass: Flaming droplets		d1																	
Euroclass: Acidity		a1																	
Categorie		Cat 7																	
Transmission bandwidth		1000MHz																	
Transfer rate		10Gbps																	
Conductor Diameter	mm	0.55																	
Conductor Material		Solid copper																	
Conductor type AWG		23																	
Copper weight	kg/km	18.35																	
Conductor isolation Diameter	mm	1.3																	
Conductor isolation Material		Polyethylene																	
Crucifix filler		No																	
Shielding foil of pairs		Aluminium + Polyester																	
Outer shielding braid		Tinned copper (CuSn)																	
Outer sheath Diameter	mm	7.4																	
Outer sheath Material		LSFH																	
Outer sheath Thickness	mm	0.7																	
Rip cord		No																	
Spark Test	Vac	3000																	
Nominal impedance	Ω	100																	
Conductor resistance	$\Omega/100m$	< 9.38																	
Nominal speed	%	79																	
Operating temperature	$^{\circ}C$	-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
Attenuation (max.)	dB/100m	4	--	--	--	8.1	--	--	--	--	20.8	--	33.8	--	--	49.3	54.6	--	--
Attenuation (typ.)	dB/100m	2	3.8	5.1	5.7	7.3	8.2	9.2	10.4	14.9	18.9	27	30.3	33.3	38.6	43.5	48.1	59.6	63.9
NEXT (min.)	dB/100m	65	--	--	--	65	--	--	--	--	62.9	--	56.9	--	--	52.4	51.2	--	--
NEXT (typ.)	dB/100m	85.7	92.2	90.6	93.9	90.1	92.1	87.8	86.3	81.2	77.8	71.1	69.3	68.9	66.7	64.9	62.5	62.6	58.6
PS NEXT (min.)	dB/100m	62	--	--	--	62	--	--	--	--	59.9	--	53.9	--	--	49.4	48.2	--	--
PS NEXT (typ.)	dB/100m	84.2	89.1	87.9	91.5	88	89.5	86.8	84.8	80.4	77.2	69.9	68.4	68.1	65.8	64.5	62.1	59.8	58.5
ACR-N (min.)	dB/100m	61	--	--	--	56.9	--	--	--	--	42.1	--	23.1	--	--	3.1	-3.4	--	--
ACR-N (typ.)	dB/100m	83.6	88.4	85.4	88.1	82.8	83.9	78.5	75.8	66.1	58.7	43.8	38.6	35.2	27.5	20.8	14	3	-5.2
PS ACR-N (min.)	dB/100m	58	--	--	--	53.9	--	--	--	--	39.1	--	20.1	--	--	0.1	-6.4	--	--
PS ACR-N (typ.)	dB/100m	82.2	85.3	82.8	85.8	80.7	81.2	77.5	74.3	65.3	58.1	42.6	37.7	34.4	26.7	20.3	13.5	0.2	-5.4
ACR-F (min.)	dB/100m	65	--	--	--	57.5	--	--	--	--	44.4	--	37.8	--	--	32.6	31.3	--	--
ACR-F (typ.)	dB/100m	83	86.9	87.6	87.7	84.7	83.3	83	81.1	78.2	74.8	65.2	63	66.3	59.5	54.1	53.8	42.8	34.6
PS ACR-F (min.)	dB/100m	62	--	--	--	54.5	--	--	--	--	41.4	--	34.8	--	--	29.6	28.3	--	--
PS ACR-F (typ.)	dB/100m	82	85	86.3	86.1	83.5	81.8	81.2	79	75.9	73.3	64.6	61.8	64	57.5	52.7	51.4	41	32.3
Return losses (min.)	dB	21	--	--	--	20	--	--	--	--	14	--	10	--	--	10	10	--	--
Return losses	dB	25.5	28.5	30.7	32	33.1	36.9	33.1	34.1	34.6	33	29.7	28.5	26.9	24.9	22.2	21.7	18.4	14.9