

S/FTP cable 4x2xAWG23, Category 7, 1000 MHz, LSOH, Euroclass D_{ca} - s2, d2, a1

P/N: KE1000HS23-Dca













Features

- each pair individually shielded with AL/PET foil, overall braid, halogen-free sheath
- enables transmission of all high-speed protocols including 10GBASE-T
- enables also transmission of non-standard protocols used in hospitals, residential areas (home networking) and so on
- tested in a bandwidth up to 1000 MHz
- suitable for enviroments with higher level of electromagnetic interference

Application

- primary (Campus), secondary (Riser), tertiary (Horizontal)
- IEEE 802.3: 10GBASE-T; 100BASE-TX; 1000BASE-T; 10GBASE-T
- IEEE 802.5: 16 MB; ISDN; TPDDI; ATM
- high bandwidth digital applications with low BER
- multimedia transmissions like digital and analog video and voice (for specific protocol related details contact your supplier)

Conductor	bare copper wire, AWG23
Insulation	foamskin polyethylene, Ø 1,28 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs to the core
Overall screen	braid 30 %
Sheath	LSOH, gray RAL7035
Outer cable diameter	7 mm



Reaction to fire		D _{ca} - s2, d2, a1			
		flame retardancy	IEC 60332-1-1, IEC 60332-1-		
Fire safety		smoke performance	IEC 61034-1, IEC 61034-2		
		halogen acidicy	IEC 60754-2		
Mechanical propertie	S				
		56 mm			
Min banding adding	installation	20 111111			
Min. bending radius	installation operation	28 mm			
Min. bending radius Temperature range					

100 N (10 kg)

oop resistance	_	≤ 165 Ω/ km
Resistance unbalance	_	≤ 2 %
nsulation resistance	(500V)	≥ 2 000 MΩ x km
apacity	at 800 Hz	nom. 43 nF/ km
pacity unbalance	(pair/ground)	≤ 1500 pF/ km
aaraataristia impadansa	at 100 MHz	$(100 \pm 15) \Omega$
haracteristic impedance	(100-250) MHz	$(100 \pm 20) \Omega$
minal velocity of propagation (NVP)	_	cca 78 %
ppagation delay	Nominal	≤ 427 ns/ 100 m
ay skew	Nominal	≤ 12 ns/ 100 m
voltage	(DC, 1 min) core/core; core/screen	1 000 V
	at 1 MHz	≤ 12 mΩ/ m
nsfer impendance	at 10 MHz	≤ 10 mΩ/ m
	at 30 MHz	≤ 30 mΩ/ m
upling attenuation	Тур II	≥ 80 dB
regation classification acc. EN 50174-2	_	d

Max. tensile load



f (MHz)	Attenuation (dB/100m)	NEXT (dB min)	PS-NEXT (dB min)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
4,0	3,7	78,0	75,0	97,0	94,0	78,0	75,00	23,01
10,0	5,86	78,0	75,0	95,0	92,0	75,30	72,30	25,0
16,0	7,41	78,0	75,0	93,0	90,0	71,22	68,22	25,0
31,2	10,41	78,0	75,0	90,0	87,0	65,40	62,40	23,64
62,5	14,88	75,46	72,46	86,0	83,0	59,38	56,38	21,54
100,0	19,00	72,40	69,40	83,0	80,0	55,30	52,30	20,11
250,0	30,97	66,43	63,43	62,0	59,0	47,34	44,34	17,30
500,0	45,26	61,92	58,92	48,0	45,0	41,32	38,32	17,30
600,0	50,10	60,73	57,73	40,0	37,0	39,74	36,74	17,30
900,0	63,01	58,09	55,09	23,0	20,0	36,22	33,22	15,50
1000,0	66,93	57,40	54,40	17,0	14,0	35,30	32,30	15,10





This product is certified on a component level by FORCE Technology international independent laboratories according to ISO/IEC 11801-1:2017 (Ed.1.0) / ISO/IEC 11801-2:2017 (Ed.1.0), IEC 61156-5:2020 (Ed.3.0.), EN 50173-1:2018 / EN 50173-2:2018, EN 50288-4-1:2013, IEC 60332-1-1:2015 (Ed.1.1) / IEC 60332-1-2:2015 (Ed.1.1), IEC 60754-2:2019 (Ed.2.1), IEC 61034-1:2019 (Ed. 3.2) / IEC 61034-2:2019 (Ed.3.2).

Mass production of this product is under permanent supervision of third party international laboratories performing FORCE Technology EC VERIFIED quality audit of the manufacturer's production.

The determination of Reaction to Fire Class Performance of this cable has been performed by Product Certification Body notified by European Commision, which also carries out the assessment and verification of constant performance (AVCP) in the System 3.