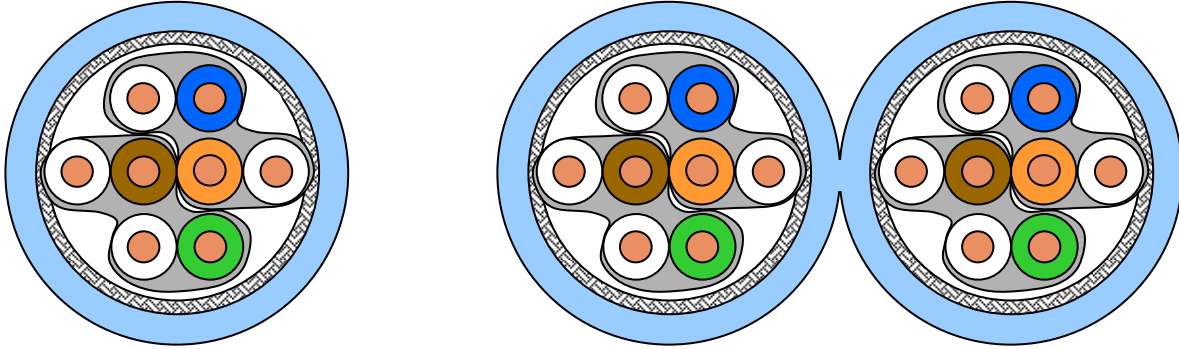


DK4 STX/CDA UC500 HS23 Cat.6_A LSHF-FR

S/FTP AWG23/1 Installation Cable



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EN 50173-1; EN 50288-5-1
ISO/IEC 11801; IEC 61156-5
TIA/EIA-568-B.2

Flame resistance

LSHF-FR(LSFR0H): additionally IEC 60332-3-24

Construction

Conductor	bare copper wire Ø 0.56 mm (AWG23/1)
Insulation	Foamskin Polyethylene, Ø 1.38 mm
Twisting	2 cores to the pair
Pair screen	High Performance-FTP : Al-laminated plastic foil, patented wrapping of two pairs each
Cable lay up	2x2 pairs to the core
Screen	Copper braid tinned
Sheath	LSHF-FR, blue, RAL 5024

Mechanical properties

Bending radius	without load	≥ 40 mm
	with load	≥ 80 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

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Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 165 Ω/km	
Resistance unbalance		≤ 2%	
Insulation resistance	(500 V)	≥ 2000 MΩ *km	
Mutual capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km	
Mean characteristic impedance	at 100 MHz	100 ± 5 Ω	
Nominal velocity of propagation		ca. 79 %	
Propagation delay		≤ 427 ns/100m	
Delay skew		≤ 12 ns/100m	
Test voltage	(DC, 1 min) core/ core and core/screen	1000 V	
Transfer impedance	bei 1 MHz	≤ 12 mΩ /m	Grade 2
	bei 10 MHz	≤ 10 mΩ /m	
	bei 30 MHz	≤ 30 mΩ /m	
Coupling attenuation		≥ 75 dB	Type 2
Segregation classification acc. EN 50174-2		„c”	

Electrical data (nominal)

 acc. to Cat.6_A (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS- ACRF (dB/100m)	Return loss (dB)
1.0	1.8	100	97	98	95	105	105	-
4.0	3.4	100	97	97	94	105	102	27
10.0	5.4	100	97	95	92	97	94	30
16.0	6.8	100	97	93	90	93	90	30
20.0	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100.0	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
400.0	38.3	87	84	48	45	64	61	23
500.0	43.0	86	83	43	40	61	58	22

Print legend

DK4 STX/CDA SC000060 Cat.6A S/FTP 4p LSHF-FR IEC 60332-3-24 <factory code/batch no./date-time><meter> m

DK4 STX/CDA SC000061 Cat.6A S/FTP 2x4p LSHF-FR IEC 60332-3-24 <factory code/batch no./date-time><meter> m

DK4 STX/CDA UC500 HS23 Cat.6_A LSHF-FR

Technical data

Product code	Cable type	Brand name	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force
				MJ/km	kWh/m			N
60049764	J-02YS(St)CH 4x2x0.56	DK4 STX UC500 HS23 Cat.6 _A S/FTP 4P LSHF-FR	7.6	596	0.166	59.5	34	160
60049766	J-02YS(St)CH 2x(4x2x0.56)	DK4 STX UC500 HS23 Cat.6 _A S/FTP 2x4P LSHF-FR	7.6/15.4	1192	0.331	119	68	320

Product Code Table

Product Description	PG Reference Code	PG Part Number
DK4 STX SC000060 UC500 HS23 C6A S/FTP 4P LSHF-FR	60049764	60049764
DK4 STX SC000060 UC500 HS23 C6A S/FTP 4P LSHF-FR 1000DW	60049765	60049765
DK4 STX SC000060 UC500 HS23 C6A S/FTP 4P LSHF-FR 2000DW	60094102	60094102
DK4 STX SC000061 UC500 HS23 C6A S/FTP 2x4P LSHF-FR	60049766	60049766
DK4 STX SC000061 UC500 HS23 C6A S/FTP 2x4P LSHF-FR 500DW	60049767	60049767

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