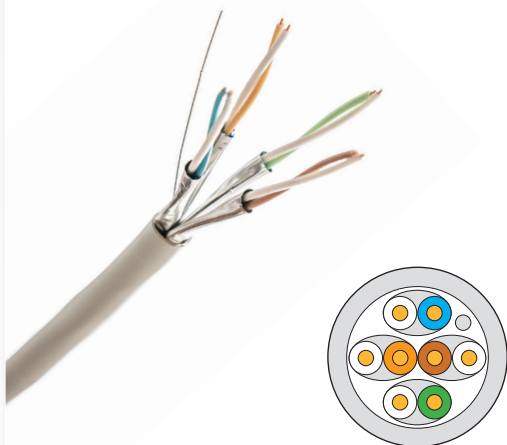


# STP cable 4x2xAWG23, Category 6<sub>A</sub> , 550 MHz, LSOH

P/N: KE550S23/1E



## features

- each pair individually shielded with AL/PET foil, halogen-free sheath
- enables transmission of all high-speed protocols including 10GBASE-T
- guarantees a bandwidth of 550 MHz
- complies with the requirements for fire prevention arrangements in buildings with higher concentration of people

## application

- primary (Campus), secondary (Riser), tertiary (Horizontal)
- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
- IEEE 802.5 16 MB; ISDN; FDDI; ATM
- high bandwidth digital applications with low BER

## construction

Conductor	bare copper wire, Ø 0.56 mm (AWG23)
Insulation	foamskin polyethylene, Ø 1.3 mm
Twisting	2 cores to the pair
Pair screen	high performance STP: Al-laminated plastic foil
Cable lay up	4 pairs to the core
Sheath	LSOH, gray RAL 7035
Outer cable diameter	7,0 mm

## mechanical properties

Min. bending radius	installation	56 mm
	operation	28 mm
Temperature range	installation	0 °C až +50 °C
	operation	-20 °C až +60 °C
Max. tensile load		100 N (10 kg)

## electrical properties at 20°C

Loop resistance	-	≤ 146,4 Ω/ km
Resistance unbalance	-	≤ 2%
Insulation resistance	(500V)	≥ 5000 MΩ x km
Capacity	at 800 Hz	nom. 43 nF/ km
Capacity unbalance	(pair/ground)	≤ 1500 pF/ km
Characteristic impedance	at 100 MHz	(100 ± 5) Ω
Nominal velocity of propagation (NVP)	-	cca 78%
Propagation delay	Nominal	≤ 450 ns/100 m
Delay skew	Nominal	≤ 15 ns/100 m

Test voltage	(DC, 1 min) core/core; core/screen	1000 V
Transfer impedance	at 1 MHz	≤ 50mΩ/ m
	at 10 MHz	≤ 50 mΩ/ m
	at 30 MHz	≤ 70 mΩ/ m
	at 100 MHz	≤ 100 mΩ/ m
Coupling attenuation	Typ II (≥ 55dB@100MHz)	Alien crosstalk (ANEXT, AFEXT) is proven by design

### transmission properties at 20°C

f (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	1,9	100,0	97,0	97,0	94,0	103,0	100,0	-
4,0	3,5	100,0	97,0	96,0	93,0	103,0	100,0	26,0
10,0	5,5	100,0	97,0	94,0	91,0	96,0	93,0	29,0
16,0	6,9	100,0	97,0	92,0	89,0	92,0	90,0	29,0
20,0	7,8	100,0	97,0	91,0	88,0	90,0	87,0	29,0
31,2	9,7	100,0	97,0	89,0	86,0	86,0	83,0	28,0
62,5	13,8	100,0	97,0	85,0	82,0	80,0	77,0	27,0
100,0	17,7	99,0	96,0	82,0	80,0	76,0	73,0	25,0
125,0	19,6	94,0	91,0	74,0	71,0	74,0	71,0	24,0
155,5	22,3	93,0	90,0	71,0	68,0	72,0	69,0	24,0
175,5	23,4	92,0	89,0	69,0	66,0	72,0	69,0	23,0
200,0	25,3	91,0	88,0	66,0	63,0	70,0	67,0	23,0
250,0	28,7	89,0	86,0	61,0	58,0	68,0	65,0	22,0
300,0	32,3	88,0	85,0	57,0	54,0	66,0	63,0	22,0
400,0	38,0	86,0	83,0	47,0	45,0	63,0	60,0	21,0
500,0	41,2	84,0	81,0	39,0	36,0	60,0	57,0	20,0
550,0	43,5	83,0	80,0	33,0	30,0	58,0	55,0	18,0

### related products

P/N: <a href="#">KEJ-C6A-S-10G</a>	Keystone Jack, Category 6 <sub>A</sub> , RJ45/s
P/N: <a href="#">601140-AP + KEJ-C6A-S-10G(2)</a>	Modulo50 outlet, Category 6 <sub>A</sub> , 2xRJ45/s
P/N: <a href="#">601120-UP + KEJ-C6A-S-10G(2)</a>	Modulo45 outlet, Category 6 <sub>A</sub> , 2xRJ45/s
P/N: <a href="#">KEP-C6A-S-10G</a>	Patch panel, Category 6 <sub>A</sub> , 24xRJ45/s
P/N: <a href="#">KEL-C6A-P-xxx</a>	STP patch cable, Category 6 <sub>A</sub> , LSOH



This product is certified on a component level by DELTA international independent laboratories according to ISO/IEC 11801:2011 (Ed. 2.2), IEC 61156-5:2009 (Ed. 2.0), EN 50173-1:2011, EN 50173-2:2007 amendment A1:2010, FprEN 50288-10-1:2011 ANSI/TIA-568-C.2:2009.

The original certificate is available and can be downloaded directly from DELTA website by scanning a QR code (on the left).

Mass production of this product is carried out under the supervision of DELTA laboratories.