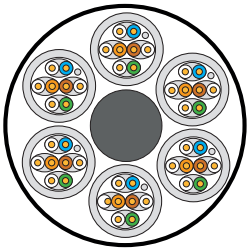
Trunk cable /jack-plug/ STP 6x4x2xAWG27, Category 6_A, 500 MHz, LSOH

P/N: **KE-CC6AHD-xxx**

10 Gigabit | Cat.6_A interoperable | 500 MHz | LS0H | HD HIGH DENSITY



features

- designed for cross-connect links in a data center
- allows to easily and quickly implement any necessary changes in a data center without a need to outsource other installation capacity
- simplifies and streamlines a management of cable routes
- enables transmission of all high-speed protocols including 10GBASE-T
- guarantees a bandwidth of 500 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

mechanical properties of keystone jack HD

Suitable for installing on	cables with solid wires	from 0,51 to 0,64 mm (AWG 24 - AWG 22)
	cables with stranded wires (special plastic insert)	from AWG 27/7 to AWG 26/7
Required installation depth	10 - 30 mm - sockets with angled faceplates	
	35 mm - sockets with straight faceplates	
Insertion / extraction cycles	min. 750	
Temperature range	operation	-40°C to +70°C
IDC reterminations	min.20	
Contact pin material	phosphor-bronze alloy coated with 50 µ of gold	
IDC contacts material	high strength phosphor-bronze alloy	
IDC contacts plating	100 micron tin alloy	

electrical properties of keystone jacku HD at 20°C

Current rating	1,25A max
Contact resistance of spring	20 mΩ max
Contact resistance of IDC	2,5 mΩ max
Dielectric strenght	1000V DC/AC 1 minute C to C
	1500V DC/AC 1 minute C to Panelu
Insulation resistance	500 MΩ

transmission properties of keystone jack HD at 20°C

f (MHz)	attenuation (dB max)	NEXT (dB min)	PS-NEXT (dB min)	FEXT (dB min)	Return loss (dB min)	TLC (dB min)	PS-ANEXT (dB min)	PS-AFEXT (dB min)
1,0	0,1	75,0	72,0	75,0	30,0	40,0	72,0	72,0
4,0	0,1	75,0	72,0	71,1	30,0	40,0	72,0	72,0
10,0	0,1	74,0	70,0	63,1	30,0	40,0	72,0	72,0
16,0	0,1	69,9	65,9	59,0	30,0	40,0	72,0	72,0
20,0	0,1	68,0	64,0	57,1	30,0	40,0	72,0	72,0
31,2	0,1	64,1	60,1	53,2	30,0	38,1	72,0	72,0
62,5	0,16	58,1	54,1	47,2	30,0	32,1	72,0	71,1
100,0	0,2	54,0	50,0	43,1	28,0	28,0	70,5	67,0
155,0	0,24	50,2	46,2	39,3	25,0	25,0	66,7	63,2
200,0	0,28	48,0	44,0	37,1	22,0	22,0	64,5	61,0
250,0	0,32	46,0	42,0	35,1	20,0	20,0	62,5	59,0
300,0	0,35	43,7	39,7	33,6	18,5	18,5	61,0	57,5
400,0	0,4	39,9	35,9	31,1	16,0	16,0	58,5	55,0
500,0	0,45	37,0	33,0	29,1	14,0	14,0	56,5	53,0

construction of cross-connect cable

Cable core	STP 6x4x2xAWG27/7
Outer cable diameter	15,5 mm
Copper conductor diameter	AWG 27/7

construction of cable

Conductor	stranded bare copper wire, AWG 27/7	
Sheath	low smoke, halogen-free (LSOH)	
Contact pin material	phosphor-bronze alloy coated with 50 µ of gold	
Boots material	polycarbonate	
Outer cable diameter	5,8 mm	
Color (standard)	cable	gray RAL7035
	boots	gray RAL7035

mechanické vlastnosti trunkového C-C kábla

Min. bending radius	installation	150 mm
	operation	90 mm
Temperature range	operation	-20 °C až +60 °C
Max. tensile load	100 N (10 kg)	
Cable weight (netto)	56 kg / 100 m	

electrical properties of the individual wires at 20°C

Loop resistance	-	≤ 340 Ω/ km
resistance unbalance	-	≤ 3%
insulation resistance	(500V)	≥ 2000 MΩ x km
Capacity	at 800 Hz	nom. 43 nF/ km
Capacity unbalance	(pair/ground)	≤ 1500 pF/ km
Charasteristic impedance	at 100 MHz	(100 ± 5) Ω
Coupling attenuation	Typ II (≥ 55dB@100MHz)	Alien crosstalk (ANEXT, AFEXT) is proven by design
Nominal velocity of propagation (NVP)	-	cca 79%
Propagation delay	Nominal	≤ 427 ns/100 m
Delay skew	Nominal	≤ 12 ns/100 m
Test voltage	(DC, 1 min) core/core, core/screen	1000 V
Transfer impedance	at 1 MHz	≤ 50mΩ/ m
	at 10 MHz	≤ 100 mΩ/ m
	at 30 MHz	≤ 200 mΩ/ m

All components of this product are certified on a component level by GHMT and FORCE Technology international independent laboratories according to ISO/IEC 11801-1: 2017 (Ed. 1.0), IEC 60603-7-51:2010 (Ed. 1.0) for keystone and ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC11801-2:2017 (Ed. 1.0), EN 50173-1:2018 / EN 50173-2:2018, TIA-568.2-D:2018, IEC61935-2:2010 (Ed. 3.0) for cable. The original certificate is available and can be downloaded directly from GHMT and FORCE Technology websites.

Mass production of this product is carried out under the supervision of GHMT and FORCE Technology laboratories.