

## Technical Data Sheet

# Rosenberger

### CAT6A Unshielded Keystone

### CP31-17X-XX

#### Application

Rosenberger CAT6A unshielded keystone jack is a part of the HDCS® cabling system, such jack utilizes same mounting feature, applicable to outlet faceplate, surface mounting box and modular patch panels. It guarantee 500MHz bandwidth for high grade 10Gbps transmission application, and compatible backwards with all current Ethernet applications.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 10Gbase-T Gigabit Ethernet
- 155Mbit ATM
- 622Mbit ATM
- 1.2 Gbit ATM
- TR-16 Active
- TR-16 Passive

#### Performance

Exceeding the specification of ANSI/TIA-568C.2 Category 6A requirements. Outstanding performance, (including IR, NEXT, AXT, RL etc.), which ensure the high link performance. Termination cap provides excellent strain relief, helps control cable bend radius and securely retains wires.



90 degree UTP keystone Standard type  
Size : L35.0×W16.5×H22.0mm



180 degree UTP keystone Standard type  
Size: L34.5×W16.3×H 22.0mm

#### Warranty

25 years of total warranty system guarantee the Rosenberger HDCS® for True Class E<sub>A</sub> system.\*

\*Please check the detail warranty documents for more information.

#### Electrical Performance at 20 °C

Voltage rating	125 VAC RMS
Current rating	1.5 AMP
Contact resistance	20 mΩ Max.
Insulation resistance	100MΩ Min. @ 500V DC

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Dielectric strength 750V AC RMS 60Hz 1MIN  
 Unbalance capacitance ≤330pF/100m

**Mechanical Performance**

Housing material PC UL94V-0  
 Insert material PBT+20%GF UL94V-0  
 PCB material FR-4  
 Contact material Phosphor bronze  
 Wire AWG 22 ~ 26  
 Life (plug in /out) ≥750 times  
 IDC life ≥200 times

**Electrical Performance at 20°C**

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	RL (dB)	PSNEXT (dB)	PSANEXT (dB)	FEXT (dB)	PS AFEXT (dB)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.
1	0.10	75.0	30.0	73.0	67.0	75.0	67.0
4	0.10	75.0	30.0	72.3	67.0	71.1	67.0
8	0.10	75.0	30.0	71.0	67.0	65.0	67.0
10	0.10	74.0	30.0	70.0	67.0	63.1	67.0
16	0.10	69.9	30.0	65.9	67.0	59.0	67.0
20	0.10	68.0	30.0	64.0	67.0	57.1	67.0
25	0.10	66.0	30.0	62.2	67.0	55.1	67.0
31.25	0.11	64.1	30.0	60.1	67.0	53.2	67.0
62.5	0.16	58.1	30.0	54.1	67.0	47.2	67.0
100	0.20	54.0	28.0	50.0	67.0	43.1	67.0
200	0.28	48.0	22.0	44.0	64.5	37.1	61.0
250	0.32	46.0	20.0	42.0	62.5	35.1	59.0
300	0.35	42.9	18.5	38.9	61.0	33.6	57.5
400	0.40	37.9	16.0	33.9	58.5	31.1	55.0
500	0.45	34.0	14.0	30.0	56.5	29.1	53.0

**Ordering Information**

Order Number	Description
CP31-171-24	Cat6A UTP Standard Keystone, Ivory, 180°
CP31-17E-14	Cat6A UTP Standard Keystone, Ivory, 90°
CP31-171-21	Cat6A UTP Standard Keystone, Black, 180°
CP31-17E-11	Cat6A UTP Standard Keystone, Black, 90°

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
Candy	2014-03-11	Joe	Steven	2014-03-11	100	New	Eva	2014-03-11

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Page

2 / 2