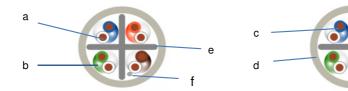


Kerman Horizontal Cables U/UTP - 100 Ohms - Category 6 - 4 pair and 2 x 4 pair HF

High speed data transmission cables for backbone distribution local computer networks, supported by the class E and for use at frequencies of up to 250 MHz.



## **Design & Materials**

Conductor Material:

Conductor Size:

Conductor Construction:

Insulation Material:

Insulation O.D.:

Color code:

Total number of wires:

Outer Jacket Color:

Marking:

Star shaped central filler

Rip-cord

(a) Bare solid copper

23 AWG

Solid

(b) HDPE

 $1.02 \pm 0.04 \text{ mm}$ 

Per TIA/EIA 568-B

(c) 4 pair (8 pair)

(d) RAL7035 Light Gray

Lengh (m)

**General Construction:** The cable contains 4 Unshielded Twisted Pairs (UTP)

(e)

(f)

cabled with a special star shaped central filler, rip-cord and

jacketed with LSZH compound.

Outer Jacket Material: LSZH

 Outer Diameter:
 6.3 mm nom. (6.3/13 mm)

 Weight:
 46 kg/km (92 kg)

**Applications:** Data-Centers/SANs, Indoor use, fixed installations,

High bandwidth digital applications with low BER, High

data rates





Electrical Properties: Cat. 6 Un-screened Pair Horizontal Cables

Freq. MHz	Attenuation dB/100m		PS NEXT Loss / dB		NEXT Loss DB		RL /dB		PS ELFEXT / dB		ELFEXT / dB	
	Typical	CAT6	Typical	CAT6	Typical	CAT6	Typical	CAT6	Typical	CAT6	Typical	CAT6
1	2,0	2,8	75,0	72,3	78,0	75,3	22,0	20,0	90,0	65,0	93,0	68,0
4	3,7	3,8	66,0	63,3	69,0	66,3	25,0	23,0	90,0	53,0	93,0	56,0
10	5,7	6,0	60,0	57,3	63,0	60,4	28,0	25,0	80,0	45,0	83,0	48,0
20	8,1	8,5	56,0	52,8	59,0	55,8	28,0	25,0	80,0	39,0	83,0	42,0
30	10,0	10,5	53,0	50,1	56,0	53,1	27,0	23,8	70,0	35,5	73,0	28,5
100	19,0	19,9	445,0	42,3	48,0	45,3	24,0	21,1	63,0	25,0	66,0	28,0
150	23,6	24,9	43,0	39,7	46,0	42,7	22,0	18,8	60,0	21,5	63,0	24,5
200	27,7	29,1	41,0	37,8	44,0	40,8	21,0	18,0	58,0	19,0	61,0	22,0
250	31,4	33,0	38,0	36,3	41,0	39,3	20,0	17,3	55,0	17,0	58,0	20,0

Cables meet the minimum Cat. 6 transmission requirements as per IEC 61156-5 Ed. 2

## Performance

Frequency Range: 1 - 250 MHz Impedance:  $100 \Omega$  Coupling Attenuation: Type III DC Resistance:  $95 \Omega/\text{km}$  nom.

Max. Resistance Unbalance: 2 %

Capacitance Unbalance: 1.2 pF/m max. Velocity of Propagation: 69 % nom. Propagation Delay Skew: 35 ns/100m max. Dielectric Strength: 700 V/minute Min. Insulation Resistance: 5 GΩ•km Max. Tensile Strength -100 N Min. Bend Radius: 50 mm Max. Operating Temperature: +60 °C Min. Operating Temperature: -30 ℃

Standards: IEC 61156, ISO/IEC 11801, TIA/EIA-568 Flamability Rating: IEC 60332-1, IEC 60754, IEC 61034

## Cables information

Reference	Jacket	Pairs AWG23	Max Diameter	Wteight kg / km	Drum size	m
0207024	LSZH	4	6,3	46	500	
0207026	LSZH	2 x 4	6,3/13	92	500	

