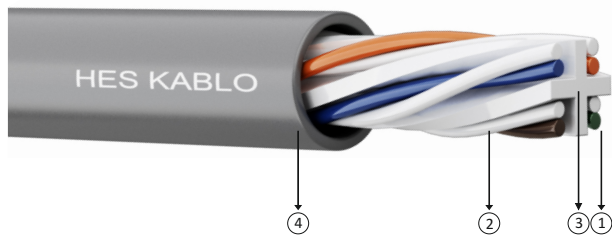


CAT 6 U/UTP LSOH



Code: CAT 6 U/UTP LSOH **Standard:** TSE / TS IEC 61156-5+A1

CAT 6 : Category 6

U/UTP : Construction of Screen (Unscreened)

LSOH : LSZH/HFFR Sheath

Technical Properties

Conductor Diameter	: 23AWG
Insulation	: Solid Polyethylene
Insulation Colors	: Blue- Blue/White Orange - Orange/White Green - Green/White Brown - Brown/White
Overall Diameter	: nom. 6.0mm
Sheath Colour	: Gray
Sheath Material	: LSZH / HFFR
Net Weight	: 40 kg/km $\pm$ 3%
Package	: 500 - 1000 m Drum
Operating Temperature	: -20°C, +60°C
Storage Temperature	: -40°C, +60°C
Installation Temperature	: 0°C, +50°C
Min. Bending Radius (fixed)	: 4 x D
Min. Bending Radius (moved)	: 8 x D

Construction

- 1- Conductor : Annealed copper wire (TS EN 60228)
- 2- Insulation : Solid Polyethylene (TS EN 50290-2-23)
- 3- Separator : Polyethylene
- 4- Outer Sheath : Gray LSZH/HFFR (TS EN 50290-2-27)

Electrical Properties

DC Resistance	: max. 80 Ω /km
Resistance Unbalance	: max. %2
Capacitance	: nom. 50 pF/m (@1kHz)
Capacitance Unbalance	: max. 1500 pF/m (@1kHz)
Operating Voltage	: max. 75 Vac
Insulation Resistance	: 500 Mohm x km (Min.)
Test Voltage (AC 50 Hz)	: 1700 V / 2 sn.
Velocity of Prop.	: nom. %67 (@100 Mhz)
Empedance	: 100 $\pm$ 15 Ω 1-100 (Mhz) 100 $\pm$ 20 Ω 100-160 (Mhz) 100 $\pm$ 22 Ω 160-250 (Mhz)

Fire Performance Tests

Vertical Flame Spread	: IEC 60332-1-2
Acidity Determination and Conductivity	: IEC 60754-2
Smoke Density	: IEC 61034-2

Applications

They can be used in information frame systems, Gigabit Ethernet-supported audio, video and data applications and computer networks.

Frequency (Mhz)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	ACR-F (dB/100m)	PS ACR-F (dB/100m)	Return Loss (RL) (dB)
	max.	min.	min.	min.	min.	min.
1,0	2,0	74,3	72,3	67,8	64,8	20,0
10,0	6,0	59,3	57,3	47,8	44,8	25,0
25,0	9,5	53,3	51,3	39,8	36,8	24,3
31,25	10,7	51,9	49,9	37,9	34,9	23,6
62,50	15,4	47,4	45,4	31,9	28,9	21,5
100	19,8	44,3	42,3	27,8	24,8	20,1
200	29,0	39,8	37,8	21,8	18,8	18,0
250	32,8	38,3	36,3	19,8	16,8	17,3