



# ANSEC

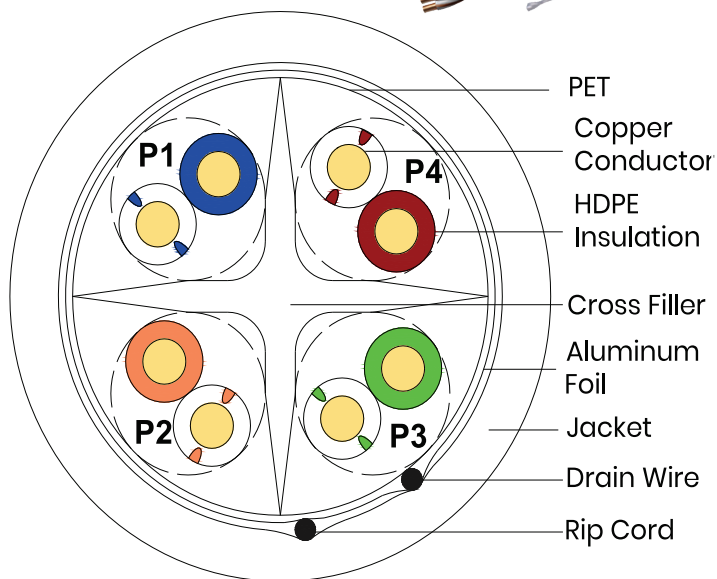
## CAT6 UTP 23AWG Cu LSZH 305m COMMUNICATION CABLE



### PRODUCT DATA SHEET

Type		CAT6 UTP 23AWG Cu LSZH 305m	
Structure		Structure A	
Conductors	Structure AWG	AWG	23# (1/23)
	Material	----	Solid Bare Copper
	Diameter	mm	Ø 0.56+/-0.008
Insulation	Material	----	HDPE
	Diameter	mm	Ø 0.98+/-0.05
	Average Thickness	mm	0.21+/-0.05
Shielding1	Type	----	----
Assembly	Direction	----	S
	No. of Insulations	Pair	4
Shielding2	Material	----	Al-Foil Screened
Drain wire	Shield	----	----
Jacket	Material	----	LSOH
	Diameter	mm	Ø 6.2+/-0.2
	Average Thickness	mm	0.6+/-0.1
	Flame Rate	----	CMX/CM/CMR

## Construction:



### core:

- P1: White-Blue/Blue
- P2: White-Orange/Orange
- P3: White-Green/Green
- P4: White-Brown/Brown

## Mechanical Characteristics

1. Cable under the minimum tension:  $\geq 400\text{N}$
2. Conductor elongation:  $\geq 15\%$
3. Jacket before Aging: Tensile Strength  $\geq 13.5\text{Mpa}$ , Elongation  $\geq 150\%$
4. Jacket After Aging: Tensile Strength  $\geq 12.5\text{Mpa}$ , Elongation  $\geq 125\%$

## Electrical Characteristics

1. Impedance: 1-250MHz  $100 \pm 15$  (Ohms)
2. Rated Temperature:  $75^\circ\text{C}$
3. DC Resistance Unbalance(%): Max 2.5
4. DC Resistance  $20^\circ\text{C}$ :  $\leq 87$  (Ohms/Km)
5. Pair-to-Ground Capacitance Unbalance: 330 (pF/100M)
6. Insulation Resistance:  $> 5000\text{M}\Omega \cdot \text{Km}$
7. Dielectric strength: DC 2500V 2S

## Nominal Transmission Characteristics

Frequency (MHz)	Min. RL (dB)	Min. IL (dB/100M)	Max. DOP (ns/100M)	Max. SKEW (ns/100M)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR-F (dB/100M)	Min. PSACR-F (dB/100M)
1	20	2	570	45	74	72	67.8	64.8
4	23	3.8	552	45	65	63	55.8	52.7
10	25	6.0	545	45	59	57	47.8	44.8
16	25	7.6	543	45	56	54	43.7	40.7
20	25	8.5	542	45	55	53	41.7	38.7
31.25	23.6	10.7	540	45	52	50	37.9	34.9
62.5	21.5	15.4	538	45	47	45	31.8	28.8
100	20.1	19.8	537	45	44.3	42.3	27.8	24.8
200	18	29	536	45	39.8	37.7	21.7	18.7
250	17.3	32.8	535	45	38	36	19.8	16.8

Note: The above transmission performance for the 100M,  $20 \pm 2^\circ\text{C}$  under the conditions tested

