



# ANSEC

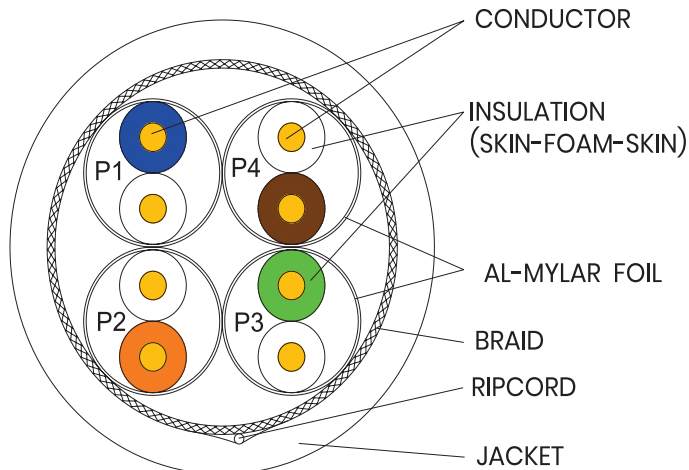
## CAT6A S/FTP 23AWG CU LSZH 500m COMMUNICATION CABLE



### PRODUCT DATA SHEET

Type		CAT6A S/FTP 23AWG CU LSZH 500m	
Structure		Structure A	
Conductors	Structure AWG	AWG	23# (1/23)
	Material	----	Solid Bare Copper
	Diameter	mm	Ø 0.56+/-0.008
Insulation	Material	----	PE(Skin-Foam-Skin)
	Diameter	mm	Ø 1.38+/-0.05
	Average Thickness	mm	0.41+/-0.05
Shielding1	Type	----	----
Assembly	Direction	----	S
	No. of Insulations	Pair	4
Shielding2	Material	----	Al-Foil Screened
Braid	Material	----	(16*6*0.12ALM)
Jacket	Material	----	LSOH
	Diameter	mm	Ø 8.2+/-0.3
	Average Thickness	mm	0.65+/-0.1
	Color	----	RAL2012

## Construction:



### core:

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

## Electrical characteristics

1. Impedance	4 - 100MHz 100±15 (ohms) / 100 - 200MHz 100±22 (ohms) / 200 - 500MHz 100±32 (ohms)
2. Max. Conductor DC Resistance 20°C	87 (ohms/km)
3. Resistance unbalance (%) max	2.5
4. Pair-to-Ground Capacitance Unbalance	330 (pF/100m)
5. Transfer Impedance Max	10 mohms/m@100MHz
6. Coupling Attenuation Min	80 dB
7. Installation temperature	0~50°C
8. Operation temperature	-20~60°C

## 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	2.6	570	45	74.3	72.3	67.8	64.8
4	23	4.3	552	45	65.3	63.3	55.8	52.8
10	25	6.4	545	45	59.3	57.3	47.8	44.8
16	25	8	543	45	56.2	54.2	43.7	40.7
20	25	8.9	542	45	54.8	52.8	41.8	38.8
31.25	23.6	11.4	540	45	51.9	49.9	37.9	34.9
62.5	21.5	15.5	539	45	47.4	45.4	31.9	28.9
100	20.1	19.6	538	45	44.3	42.3	27.8	24.8
200	18	28.6	537	45	39.8	37.8	21.8	18.8
300	17.3	35.3	536	45	37.1	35.1	18.3	15.3
400	17.3	41.1	536	45	35.3	33.3	15.8	12.8
500	17.3	46.3	536	45	33.8	31.8	13.8	10.8