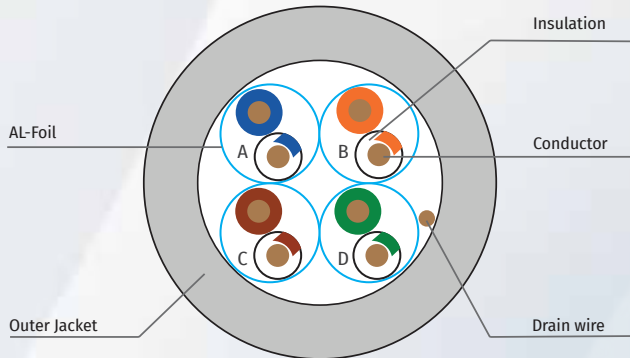


## 4PR 23AWG U/FTP CAT6A LSZH COPPER TWISTED PAIR CABLE



### Color

- A.White/Blue (Stripe) & Blue
- B.White/Orange (Stripe) & Orange
- C.White/Green (Stripe) & Green
- D.White/Brown (Stripe) & Brown



## Construction

Structure	
Construction	U/FTP
Number of pairs	4 Pairs
Conductor	
Material	Solid Bare copper
AWG	23 AWG
Dimension	0.566±0.020mm
Insulation	
Material	Foamed PE
Dimension	1.30±0.05 mm
Cabling	
Twisting lay length	≤30mm
Cabling lay length	≤200mm
Filler	
Filler	N/A
Binder	
Binder Material	N/A
Shield	
Individual shield	AL/PET
Primary overall shield	N/A
Secondary overall shield	N/A
Drain wire	1/26AWG solid tinned copper
Outer jacket	
Material	LSZH
Thickness (min)	0.40 mm
Outer diameter	7.0±0.4 mm
Rip cord	N/A
Outer jacket colour	Customer request

## Physical Characteristics

Operating temperature range	-20 ~ +75 °C
Installation temperature range	0 ~ +50 °C
Outer jacket	
Recom. pulling tension (max.)	110N
Bending radius (Installation) (min.)	8 x O.D.
Outer jacket tensile strength	≥8.3 Mpa( UL 444)
Outer jacket elongation	≥100%( UL 444)
Outer jacket aging condition	100 °C x 48 hrs ( UL 444)
Tensile strength retention after aging	≥75% of Unaging(UL 4444)
Elongation retention after aging	≥75% of Unaging(UL 4444)
Cold bend	No crack (@ -20°C x 4hrs )(UL 444)
Coupling attenuation	Type II(IEC 61156-5)
Transfer impedance	Grade 2(IEC 61156-5)

## Electrical Characteristics

Insulation resistance (min.)	5000 MΩ.Km (IEC 61156-5)
Operating voltage (max.)	300V (UL444)
Mutual capacitance (nom.)	≤5.6 nF/100m @1kHz (IEC 61156-5)
Capacitance unbalance:	≤160 pF/100m @1kHz (IEC 61156-5)
pair-to-ground	45 ns/100m (IEC 61156-5)
Delay skew (max.)	93.8 Ω/km @20 °C(TIA-568.2-D)
Conductor DC resistance (max.)	≤2% @20 °C within a pair (TIA-568.2-D)
Conductor DC resistance unbalance	≤5% @20 °C between pairs (IEC 61156-5)
Nominal velocity of propagation	74%

## Transmission characteristics ( Test length :100m)

IEC 61156-5 and ISO/IEC 11801

Frequency (MHz)	Input Impedance Upper limit Zu (Ω)	Input Impedance Lower limit Zl (Ω)	ATT (dB/ 100m Max)	RL (dB Min)	NEXT (dB Min)	PS NEXT (dB Min)	ACR-F (dB Min)	PS ACR-F (dB Min)	PD (ns/ 100m Max)
1	-	-	2.1	20.0	75.3	72.3	68.0	65.0	570.0
4	115.00	85.0	3.8	23.0	66.3	63.3	56.0	53.0	552.0
8	115.00	85.0	5.3	24.5	61.8	58.8	49.9	46.9	546.7
10	115.00	85.0	5.9	25.0	60.3	57.3	48.0	45.0	545.4
16	115.00	85.0	7.5	25.0	57.2	54.2	43.9	40.9	543.0
20	115.00	85.0	8.4	25.0	55.8	52.8	42.0	39.0	542.0
25	115.00	85.0	9.4	24.3	54.3	51.3	40.0	37.0	541.2
31.25	115.00	85.0	10.5	23.6	52.9	49.9	38.1	35.1	540.4
62.5	115.00	85.0	15.0	21.5	48.4	45.4	32.1	29.1	538.6
100	120.00	80.0	19.1	20.1	45.3	42.3	28.0	25.0	537.6
200	120.00	80.0	27.6	18.0	40.8	37.8	22.0	19.0	536.5
250	125.00	75.0	31.1	17.3	39.3	36.3	20.0	17.0	536.3
300	125.00	75.0	34.3	17.3	38.1	35.1	18.5	15.5	536.1
400	125.00	75.0	40.1	17.3	36.3	33.3	16.0	13.0	535.8
500	125.00	75.0	45.3	17.3	34.8	31.8	14.0	11.0	535.6

\* Cable that meet the requirements of the characteristic impedance are not required to be measured for return loss; alternately cables that meet the return loss requirements are not required to be measured for characteristic impedance.

\* Test ambient temp. is 20°C

\* Mutual capacitance, capacitance unbalance, characteristic impedance, return loss, insertion loss, SRL, NEXT loss, ACRF, TCL, and TCTL measurements and calculations shall be performed on cable samples of 100 m (328 ft) removed from the reel or packaging. The test sample shall be laid out along a non-conducting surface, loosely coiled, or supported in aerial spans, and all pairs shall be terminated according to the specific requirements of this annex. Other test configurations are acceptable if correlation to the reference

## Ordering Information

\* Ordering Code Example

LIGC6AUFL

PN  
LIGC6AUFL

L	I	G	C	6	A	U	F	L
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