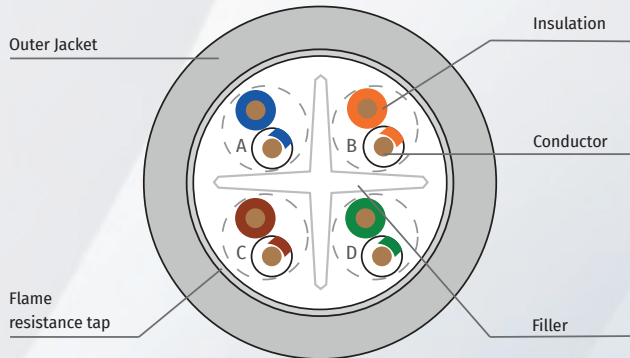


4PR 23AWG U/UTP CAT6 LSZH COPPER TWISTED PAIR CABLE



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/UTP
Number of pairs	4 Pairs
Conductor	
Material	Solid Bare copper
AWG	23 AWG
Dimension	0.566±0.020mm
Insulation	
Material	HDPE
Dimension	1.02±0.05 mm
Cabling	
Twisting lay length	≤30mm
Cabling lay length	≤200mm
Filler	
Material	Yes
Binder	
Binder Material	Flame resistance tap
Shield	
Individual Shield & material	N/A
Primary overall shield & material	N/A
Secondary overall shield	N/A
Drain wire	N/A
Outer jacket	
Material	LSZH
Thickness (min)	0.7 mm
Outer diameter	7.3±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.)	80N (UL 444)
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) (UL444)

Electrical Characteristics

Insulation resistance (min.)	5000 M Ω .Km (IEC 61156-5)
Operating voltage (max.)	300V (UL444)
Mutual capacitance (nom.)	≤ 5.6 nF/100m @1kHz (TIA 568.2-D)
Capacitance unbalance:pair-to-ground	≤ 330 pF/100m @1kHz (TIA 568.2-D)
Delay skew (max.)	45 ns/100m (TIA 568.2-D)
Conductor DC resistance (max.)	93.8 Ω /km @20 °C (TIA-568.2-D)
Conductor DC resistance unbalance	$\leq 5\%$ @20 °C (TIA-568.2-D)
Nominal velocity of propagation	65%

Transmission characteristics (Test length :100m)

TIA-568.2-D & IEC 61156-5

Frequency (MHz)	Characteristic Impedance Upper limit Zu (Ω)	Characteristic Impedance Lower limit Zl (Ω)	ATT (dB/ 100m)	RL (dB Min)	NEXT (dB Min)	PS NEXT (dB Min)	ELFEXT (dB Min)	PS ELFEXT (dB Min)	PD (ns/ 100m Max)
1	-	-	2.0	20.0	74.3	72.3	67.8	64.8	570.0
4	115.22	86.8	3.8	23.0	65.3	63.3	55.8	52.8	552.0
8	112.64	88.8	5.3	24.5	60.8	58.8	49.7	46.7	546.7
10	111.92	89.4	6.0	25.0	59.3	57.3	47.8	44.8	545.4
16	111.92	89.4	7.6	25.0	56.2	54.2	43.7	40.7	543.0
20	111.92	89.4	8.5	25.0	54.8	52.8	41.8	38.8	542.0
25	112.95	88.5	9.5	24.3	53.3	51.3	39.8	36.8	541.2
31.25	114.07	87.7	10.7	23.6	51.9	49.9	37.9	34.9	540.4
62.5	118.29	84.5	15.4	21.5	47.4	45.4	31.9	28.9	538.6
100	121.92	82.0	19.8	20.1	44.3	42.3	27.8	24.8	537.6
200	128.80	77.6	29.0	18.0	39.8	37.8	21.8	18.8	536.5
250	131.51	76.0	32.8	17.3	38.3	36.3	19.8	16.8	536.3

* 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.

* Cable measurement precautions: 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 method has been verified. In case of conflict, the reference method (100 m, off-reel, resistor terminated) shall be used to determine conformance to the minimum requirements of this Standard.

* Test ambient temp. is 20°C

Ordering Information

* Ordering Code Example

LIGC6UL

PN
LIGC6UL

L	I	G	C	6	U	L
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