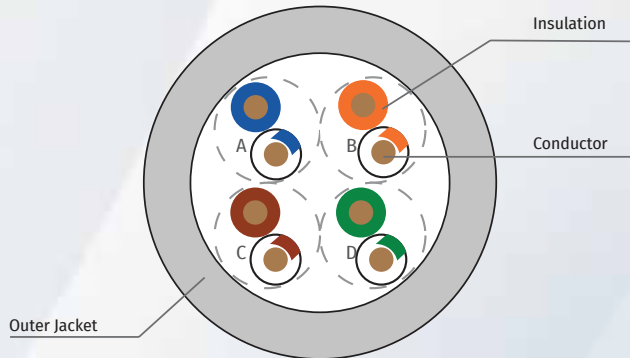


4P 24AWG U/UTP CAT5E LSZH COPPER TWISTED PAIR CABLE



Color

1. Blue , White/Blue(stripe)
2. Orange , White/Orange(stripe)
3. Green , White/Green(stripe)
4. Brown , White/Brown(stripe)



Construction

Structure	
Construction	F/UTP
Number of pairs	4 Pairs
Conductor	
Material	Solid Bare copper
AWG	23 AWG
Dimension	0.505 ±0.02 mm
Insulation	
Material	PE
Dimension	0.9 ± 0.05mm
Cabling	
Twisting lay length	≤30mm
Cabling lay length	≤200mm
Filler	N/A
Binder Material	N/A
Outer jacket	
Material	LSZH
Thickness (min)	0.50 mm
Outer diameter	5.2±0.2 mm
Rip cord	N/A
Outer jacket colour	Customer request

Physical Characteristics

Operating temperature range	-20 ~ +75 °C
Installation temperature range	0 ~ +50°C
Bending radius (Installation) (min.)	4 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)
Insulation shrinkback	121°Cx1hr ≤5%
Insulation cold bend	-20°Cx4hr No crack
Insulation Tens strength(before aging)	>16.47 Mpa
Insulation Elongation (before aging)	>300%

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 (IEC 61156-5)
Conductor DC resistance unbalance	$\leq 5\%$ @20 °C between pairs (TIA-568.2-D)
Dielectric Strength	AC:500V/1min No Breakdown

Transmission characteristics (Test length :100m)

IEC61156-5,ANSI/TIA-568.2-D

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)	ELFEXT (dB Min)	PS ELFEXT (dB Min)	PD (ns/ 100m Max)	Characteristic Impedance (Ω)
1	/	/	2.0	20.0	65.3	62.3	64.0	61.0	570.0	
4	115.0	85.0	4.1	23.0	56.3	53.3	52.0	49.0	552.0	
8	115.0	85.0	5.8	24.5	51.8	48.8	45.9	42.9	546.7	
10	115.0	85.0	6.5	25.0	50.3	47.3	44.0	41.0	545.4	
16	115.0	85.0	8.2	25.0	47.2	44.2	39.9	36.9	543.0	
20	115.0	85.0	9.3	25.0	45.8	42.8	38.0	35.0	542.0	
25	115.0	85.0	10.4	24.3	44.3	41.3	36.0	33.0	541.2	
31.25	115.0	85.0	11.7	23.6	42.9	39.9	34.1	31.1	540.4	
62.5	115.0	85.0	17.0	21.5	38.4	35.4	28.1	25.1	538.6	
100	115.0	85.0	22.0	20.1	35.3	32.3	24.0	21.0	537.6	100 ± 5

* Cable that meet the requirements of the template 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.

*The test temperature is 20°C.

* 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.

Ordering Information

* Ordering Code Example

LIGC5EUL

PN
LIGC5EUL

L	I	G	C	5	E	U	L
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