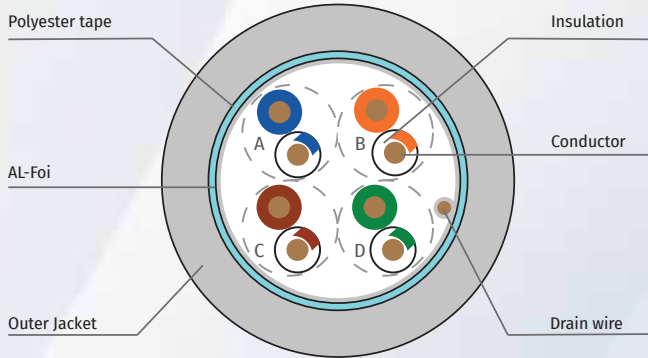


4PR 24AWG CAT5E F/UTP LSZH COPPER TWISTED PAIR CABLE

Color

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



Construction

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	1.00±0.05 mm
Cabling	
Twisting lay length	≤30mm
Cabling lay length	≤200mm
Filler	N/A
Binder Material	Polyester Tape
Shield	
Individual Shield & material	N/A
Primary overall shield & material	AL-Foil
Secondary overall shield	N/A
Drain wire	26AWG Solid
Outer jacket	tinned copper
Material	LSZH
Thickness (min)	0.50 mm
Outer diameter	6.2±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
Outer jacket	80N
Recom. pulling tension (max.)	8 x O.D.
Bending radius (Installation) (min.)	≥ 8.3 Mpa(UL 444)
Outer jacket tensile strength	≥ 100%(UL 444)
Outer jacket elongation	100 °C x 48 hrs (UL 444)
Outer jacket aging condition	≥ 75% of Unaging(UL 4444)
Tensile strength retention after aging	≥ 75% of Unaging(UL 4444)
Elongation retention after aging	No crack (@ -20 °C x 4hrs)
Cold bend	(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 MΩ.Km (IEC 61156-6)
Operating voltage (max.)	300V (UL444)
Mutual capacitance (nom.)	≤5.6 nF/100m @1kHz (IEC 61156-6)
Capacitance unbalance:pair-to-ground	≤160 pF/100m @1kHz (IEC 61156-6)
Delay skew (max.)	45 ns/100m (IEC 61156-6)
Conductor DC resistance (max.)	93.8 Ω/km @20 °C (IEC 61156-6)
Conductor DC resistance unbalance	≤2% @20 °C within a pair (IEC 61156-6)
Nominal velocity of propagation	68 ± 2%
Dielectric Strength	AC:500V/1min No Breakdown

Transmission characteristics (Test length :100m)

TIA-568.2-D & IEC 61156-5, 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)	ELFEXT (dB Min)	PS ELFEXT (dB Min)	PD (ns/ 100m Max)	Characteristic Impedance (Ω)
4	115.0	85.0	4.1	23.0	56.3	53.3	51.8	48.8	552.0	
8	115.0	85.0	5.8	24.5	51.8	48.8	45.7	42.7	546.7	
10	115.0	85.0	6.5	25.0	50.3	47.3	43.8	40.8	545.4	
16	115.0	85.0	8.2	25.0	47.2	44.2	39.7	36.7	543.0	
20	115.0	85.0	9.3	25.0	45.8	42.8	37.8	34.8	542.0	
25	115.0	85.0	10.4	24.3	44.3	41.3	35.8	32.8	541.2	
31.25	115.0	85.0	11.7	23.6	42.9	39.9	33.9	30.9	540.4	
62.5	115.0	85.0	17.0	21.5	38.4	35.4	27.9	24.9	538.6	
100	115.0	85.0	22.0	20.1	35.3	32.3	23.8	20.8	537.6	100±5

* 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

LIGC5EFL

PN
LIGC5EFL

L	I	G	C	5	E	F	L
---	---	---	---	---	---	---	---