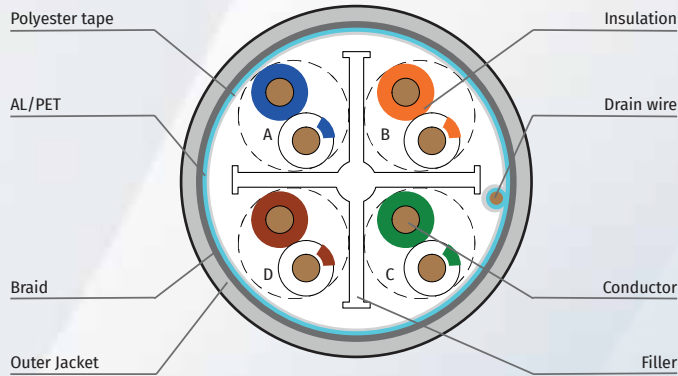


4PR 23AWG SF/UTP CAT6 LSZH COPPER TWISTED PAIR CABLE



Color

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



Construction

Structure	
Construction	SF/UTP
Number of pairs	4 Pairs
Conductor	
Material	Solid Bare copper
AWG	23 AWG
Dimension	0.566±0.020mm
Insulation	
Material	Foam PE & HDPE
Dimension(Blue ,Green)	1.14 ±0.05 mm
Dimension(Orange ,Brown)	1.08 ±0.05 mm
Cabling	
Twisting lay length	≤30mm
Cabling lay length	≤200mm
Filler	
Filler	PE
Binder	
Binder Material	Polyester Tape
Shield	
Individual Shield & material	N/A
Primary overall shield & material	AL/PET
Secondary overall shield	Tinned copper braid
Braiding coverage (Min.)	35%
Drain wire	1/26AWG solid tinned copper
Outer jacket	
Material	LSZH
Thickness (min)	0.5 mm
Outer diameter	8.1±0.3 mm
Rip cord	N/A
Outer jacket colour	Customer request

Physical Characteristics

Operating temperature range	-20 ~ +75 °C
Installation temperature range	0 ~ +50 °C
Bulk cable weight approx	N/A
Outer jacket	
Recommended pulling tension (max.)	110N (TIA-568.2-D)
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)
Transfer impedance	Grade 2 (IEC 61156-5)
Coupling attenuation	Type II (IEC 61156-5)
Acid gas release mounts	≤5 mg/g (IEC 60754-1)
Smoke Density Min. Transmittance	60% (IEC 61034-2)

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 (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.)	$\leq 5\%$ @20 °C within a pair (TIA-568.2-D)
Conductor DC resistance unbalance	$\leq 5\%$ @20 °C between pairs (IEC 61156-5)
Nominal velocity of propagation	65%

Transmission characteristics (Test length :100m)

TIA-568.2-D & IEC 61156-5,ISO/IEC 11801

Frequency (MHz)	Characteristic Impedance Upper limit Zu (Ω)	Characteristic 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)	TCL (dB Min)
1	-	-	2.03	20.0	74.3	72.3	67.8	64.8	570.0	40.0
4	115.2	86.8	3.78	23.0	65.3	63.3	55.8	52.8	552.0	40.0
8	112.6	88.8	5.32	24.5	60.8	58.8	49.7	46.7	546.7	40.0
10	111.9	89.4	5.95	25.0	59.3	57.3	47.8	44.8	545.4	40.0
16	111.9	89.4	7.55	25.0	56.2	54.2	43.7	40.7	543.0	38.0
20	111.9	89.4	8.47	25.0	54.8	52.8	41.8	38.8	542.0	37.0
25	112.9	88.5	9.51	24.3	53.3	51.3	39.8	36.8	541.2	36.0
31.25	114.1	87.7	10.67	23.6	51.9	49.9	37.9	34.9	540.4	35.1
62.5	118.3	84.5	15.38	21.5	47.4	45.4	31.9	28.9	538.6	32.0
100	121.9	82.0	19.80	20.1	44.3	42.3	27.8	24.8	537.6	30.0
150	125.7	79.6	24.71	18.9	41.7	39.7	24.3	21.3	536.9	28.2
200	128.8	77.6	28.98	18.0	39.8	37.8	21.8	18.8	536.5	27.0
250	131.5	76.0	32.85	17.3	38.3	36.3	19.8	16.8	536.3	26.0

* 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

* *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

LIGC6SFL

PN
LIGC6SFL

L	I	G	C	6	S	F	L
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