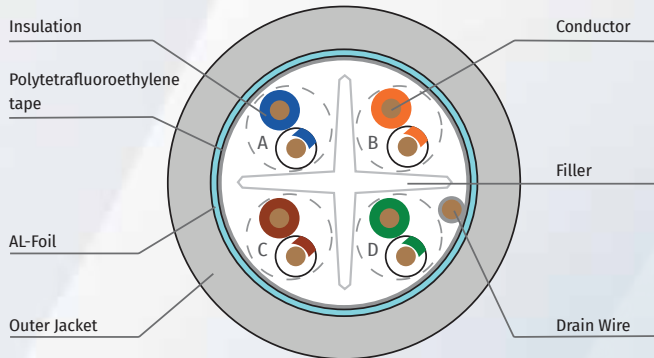


4PR 23AWG F/UTP CAT6 PVC CMP COPPER TWISTED PAIR CABLE



Color
 A.White & Blue
 B.White & Orange
 C.White & Green
 D.White & Brown



Construction

Structure	
Construction	F/UTP
Number of pairs	4 Pairs
Conductor	
Material	Solid Bare copper
AWG	23 AWG
Dimension	0.566±0.020mm
Insulation	
Material	FEP
Dimension(Blue ,Green)	1.12±0.05 mm
Dimension(Orange ,Brown)	1.04±0.05 mm
Cabling	
Twisting lay length	≤30mm
Cabling lay length	≤200mm
Filler	
Filler	Yes
Binder	
Binder Material	Polytetrafluoroethylene tape
Shield	
Primary overall shield & material	AL-Foil
Secondary overall shield	N/A
Shield coverage	100%
Drain wire	1/26AWG solid tinned copper
Outer jacket	
Material	LS-PVC
Thickness (min)	0.30 mm
Outer diameter	7.2 ±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(TIA-568.2-D)
Bending radius (Installation) (min.)	8 x O.D.
Outer jacket tensile strength	≥13.8 Mpa(UL 444)
Outer jacket elongation	≥100%(UL 444)
Outer jacket aging condition	100 °C x 240 hrs (UL 444)
Tensile strength retention after aging	≥85% of Unaging(UL 4444)
Elongation retention after aging	≥55% of Unaging(UL 4444)
Cold bend	No crack (@ -20°C x 4hrs) (UL 444)
Transfer impedance	Grade 2(IEC 61156-5)
Coupling attenuation	Type II(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:	≤330 pF/100m @1kHz (TIA-568.2-D)
pair-to-ground	45 ns/100m (TIA-568.2-D)
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	65%

Transmission characteristics (Test length :100m)

TIA-568.2-D & IEC 61156-5, ISO/IEC 11801,UL444

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)	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	113.0	88.5	9.51	24.3	53.3	51.3	39.8	36.8	541.2	36.0
31.25	114.1	87.6	10.67	23.6	51.9	49.9	37.9	34.9	540.4	35.1
62.5	118.4	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
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

* 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

LIGC6UFL-CMP

PN
LIGC6UFL-CMP

L	I	G	C	6	U	F	L	-	C	M	P
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