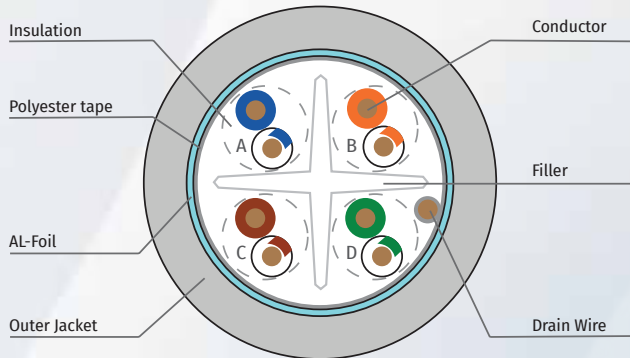


4PR 23AWG F/UTP CAT6 PVC CMR COPPER TWISTED PAIR CABLE



Color

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



Construction

Structure	
Construction	F/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-Foil
Shield coverage	100%
Drain wire	1/26AWG solid tinned copper
Outer jacket	
Material	PVC
Thickness (min)	0.4 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	
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	≥ 50% 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: pair-to-ground	≤160 pF/100m @1kHz(IEC 61156-5)
Delay skew (max.)	45 ns/100m(IEC 61156-5)
Conductor DC resistance (max.)	93.8 Ω/km @20 °C(TIA-568.2-D)
Conductor DC resistance unbalance	≤5% @20 °C within a pair(TIA-568.2-D)
	≤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	40.0
4	115.2	86.8	3.78	23.0	65.3	63.3	55.8	52.8	552	40.0
8	112.6	88.8	5.32	24.5	60.8	58.8	49.7	46.7	547	40.0
10	111.9	89.4	5.95	25.0	59.3	57.3	47.8	44.8	545	40.0
16	111.9	89.4	7.55	25.0	56.2	54.2	43.7	40.7	543	38.0
20	111.9	89.4	8.47	25.0	54.8	52.8	41.8	38.8	542	37.0
25	113.0	88.5	9.51	24.3	53.3	51.3	39.8	36.8	541	36.0
31.25	114.1	87.6	10.67	23.6	51.9	49.9	37.9	34.9	540	35.1
62.5	118.4	84.5	15.38	21.5	47.4	45.4	31.9	28.9	539	32.0
100	121.9	82.0	19.80	20.1	44.3	42.3	27.8	24.8	538	30.0
200	128.8	77.6	28.98	18.0	39.8	37.8	21.8	18.8	537	27.0
250	131.5	76.0	32.85	17.3	38.3	36.3	19.8	16.8	536	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

LGC6AUL-CMR

PN
LIGC6AUL-CMR

L	I	G	C	6	A	U	L	-	C	M	R
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