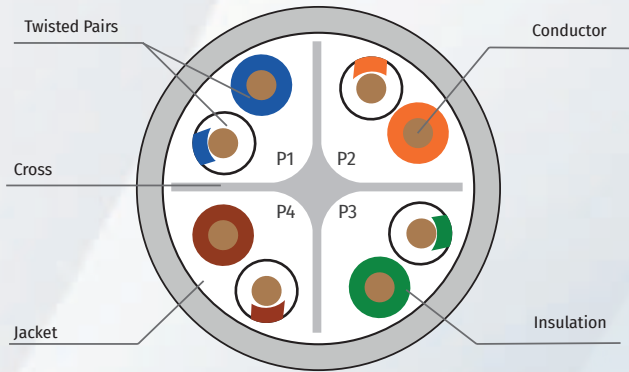


## 4PR 28AWG U/UTP CAT6 LSZH COPPER TWISTED PAIR CABLE (RED JACKET)



Color  
 Insulation Cores: Pairs  
 P1: Blue & White  
 P2: Orange & White  
 P3: Green & White  
 P4: Brown & White  
 Jacket

### Construction

Structure	
Construction	Bare Copper
4 Twisted Pair	8C
AWG	28
Construction (MM)	1/0.35±0.008
Standard Dia. (MM)	/
Insulation	PE
Norn. Thickness (MM)	0.21
Insulation Dia. (±0.005MM)	0.65
Separation	PE Cross
Shield/Braid	/
Overlap(%)	/
Darin wire	/
Jacket	LSZH
Norn. Thickness (MM)	0.6
Outer Dia. (±0.2MM)	4.0

### Physical Characteristics

Insulation	Unit	
Tens strength (before aging)	Kgf/mm <sup>2</sup>	>1.68
Tens strength (after aging)	Kgf/mm <sup>2</sup>	
Elongation (before aging)	%	>300%
Elongation (after aging)	%	
Jacket		
Tens strength (before aging)	Kgf/mm <sup>2</sup>	>1.41
Tens strength (after aging)	Kgf/mm <sup>2</sup>	
Elongation (before aging)	%	>100%
Elongation (after aging)	%	
Conductor Resistance	Ω/Km / 20°C	<93.8
Insulation Shrinkback		121° C x1hr
Insulation cold bend		-20° C x4hr
Jacket cold bend		-20° C x4hr

## Electrical Characteristics

ELECTRICAL CHARACTERISTICS (20 °C)	
MAX.CONDUCTOR DC RESISTANCE ( /KM)	#23:229
MIN.INSULATION RESISTANCE ( /KM)	80M
DIELECTRIC STRENGTH:	AC-500V/1 MIN NO BREAKDOWN
D-C RESISTANCE UNBALANCE:	MAX 2%
PAIR-TO-GROUND CAPACITANCE UNBALANCE:	MAX. 330PF/100M
INPUT IMPEDANCE:	4-100MHz 100+/-15ohm 100-250MHz 100+/-22ohm
MEAN CHARACTERISTIC IMPEDANCE@100MHZ:	100+/-5 OHMS
NOMINAL VELOCITY OF PROPAGATION (NVP):	68+/-2%
PROPAGATION DELAY@100MHZ:	≥537.6 ns/ 100M
PROPAGATION DELAY SKEW:	MAX. ≥45ns/100M
FREQUENCY RANGE MINIMUM REQUIREMENTS(EQUATIONS)	
INSERTION LOSS :	4-250MHZ IEC60332-1:EQUATION(2),CONSTANT VALUES SEE TABLE 4 CAT. 6
RETURN LOSS 4-250MHZ IEC60332-1:	SEE TABLE 10
INPUT IMPEDANCE 4-250MHZ IEC60332-1:	SEE TABLE 10
NEXT 4-250MHZ IEC60332-1:	EQUATION(6),CONSTANT VALUES SEE TABLE 6 CAT. 6
PS NEXT 4-250MHZ IEC60332-1:	EQUATION(5),CONSTANT VALUES SEE TABLE 6 CAT. 6
ELFEXT 4-250MHZ IEC60332-1:	EQUATION(7),CONSTANT VALUES SEE TABLE 6 CAT. 6
PS ELFEXT 4-250MHZ IEC60332-1:	EQUATION(7),CONSTANT VALUES SEE TABLE 6 CAT. 6

## Ordering Information

\* Ordering Code Example

PN  
LIGC6UL-28R

L	I	G	C	6	U	L	-	2	8	R
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