

# RoHS COMPLIANT

**Overview**  
 Bandwidth: 250MHz  
 OD: 2.8mm  
 Conductor: 32AWG  
 Approvals: RoHS  
 Connector: 3U" gold plated RJ45 connector

**Physical Characteristics**

- Cable Type – Cat6 UTP
- Connector Type(s) – RJ45
- Wiring Scheme – T568B
- Temperature Rating
  - Installation: 0°C-50°C
  - Operation: -20°C-60°C
  - Voltage Rating – 30V

**Conductor (Qty. 4 twisted pair)**

- Conductor Type – 32AWG(7/0.08), Stranded Bare Copper
- Insulation – HDPE
- Diameter – 0.45±0.05mm
- Pair Identification:
  - Pair1=Orange, Orange-White
  - Pair2=Blue, Blue-White
  - Pair3=Green, Green-White
  - Pair4=Brown, Brown-White

**Connector Type (Qty. 2)**

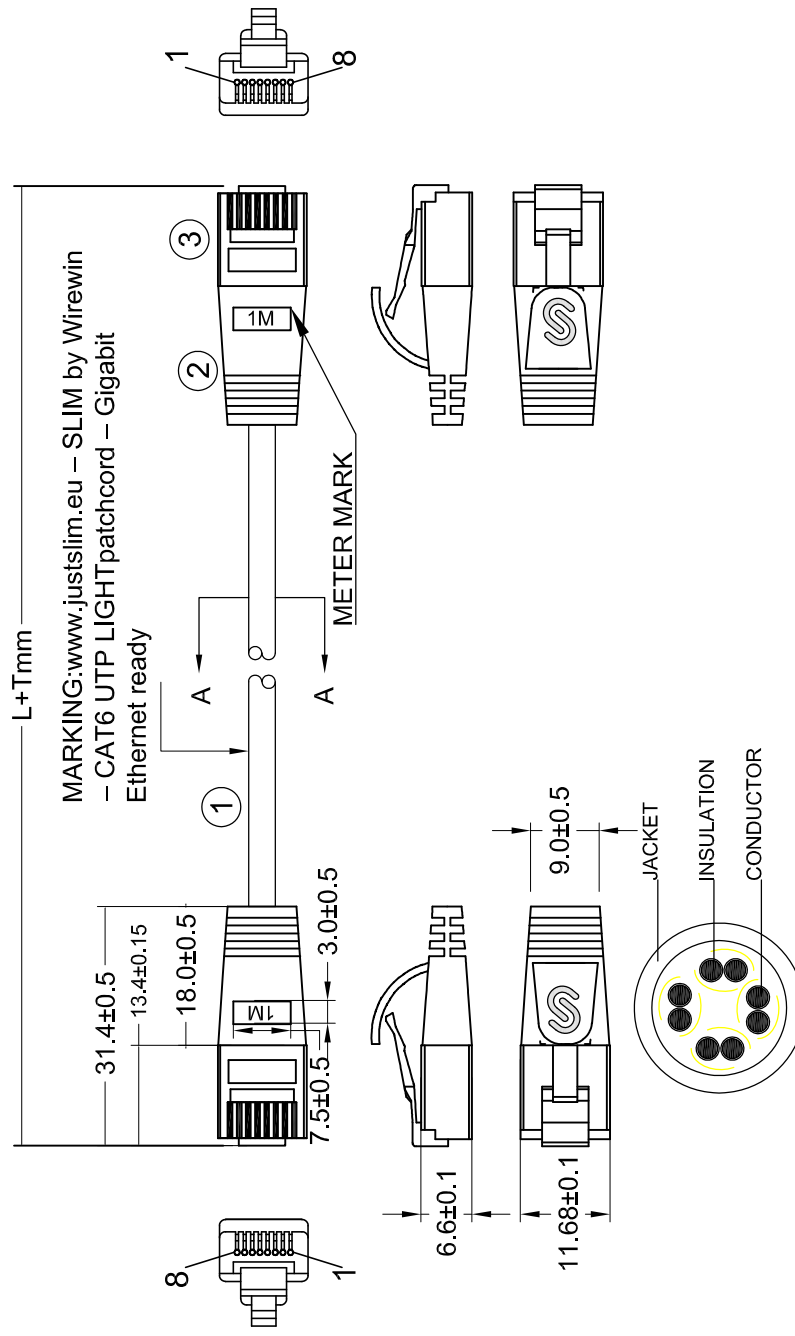
- Connector Type – 8P8C (RJ45)
- Gender – Male
- Connector Material – PC
- Contact Material – Copper Alloy, 3U" Gold Plating
- Hood Material – Molded PVC

**Overall Cable**

- Jacket – PVC
- Minimum Average Thickness – 0.45mm
- Outer Diameter – 2.8 ± 0.15mm

**Electrical Characteristics**

- Conductor DC Resistance – 60.1Ω/100m (maximum)
- Impedance – 100Ω
- Capacitance – 5600pf/100m
- Propagation Delay – 545ns/100m (maximum)
- Delay Skew – 45ns/100m (maximum)
- Pass TIA Fluke Cat.6 Channel Test ( L≤5m);  
 7.5-15m Channel Test; 20-30m Open Short Test.



SEC:A-A

CUSTOMER P/N	LENGTH(mm)	TOLERANCE	METER MARK
PKW-LIGHT-K6 0.15	150	-0/+20mm	0.15M
PKW-LIGHT-K6 0.5	500	-0/+20mm	0.5M
PKW-LIGHT-K6 1.0	1000	-0/+20mm	1M
PKW-LIGHT-K6 1.5	1500	-5/+20mm	1.5M
PKW-LIGHT-K6 2.0	2000	-10/+30mm	2M
PKW-LIGHT-K6 3.0	3000	-20/+30mm	3M
PKW-LIGHT-K6 5.0	5000	-20/+30mm	5M
PKW-LIGHT-K6 7.5	7500	-20/+30mm	7.5M
PKW-LIGHT-K6 10.0	10000	-50/+50mm	10M

ITEM NO:	PKW-LIGHT-K6 XX	DRAWER	FW
TITLE		DATE	20230425
CUSTOMER		CHECKED	ACE
MATERIAL		DATE	20230425
REV.	A	APPROVED	
DRAWING NO:	60U0P280708HB 2307 ---10222085	DATE	
ACAD FILE	E:\		

NO.	DESCRIPTION	Q'TY
3	RJ45 PLUG: 8P8C 3U" GOLD PLATED TWO-PIECE SHORT BODY LONG LATCH PLUG	
2	MOLDED: PVC MOLDED BOOT.	
1	CABLE: CAT6 UTP 4P/32AWG(7/0.08) OD=Ø2.8±0.15MM PVC JACKET.	
SPECIFICATION		
BOM LIST		

