

# RoHS COMPLIANT

## Overview

Bandwidth: 500MHz  
 OD: 1.9\*6.0mm  
 Conductor: 32AWG  
 Approvals: RoHS  
 Connector: 3U" gold plated RJ45 connector

## Physical Characteristics

- Cable Type – Cat6A STP FLAT
- Connector Type(s) – Shielded 8P8C (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(7/0.08mm), Stranded Bare Copper
- Insulation – HDPE
- Diameter – 0.6±0.05mm
- Pair Identification:
  - Pair1=Orange, Orange-White
  - Pair2=Blue, Blue-White
  - Pair3=Green, Green-White
  - Pair4=Brown, Brown-White

## Connector Type (Qty. 2)

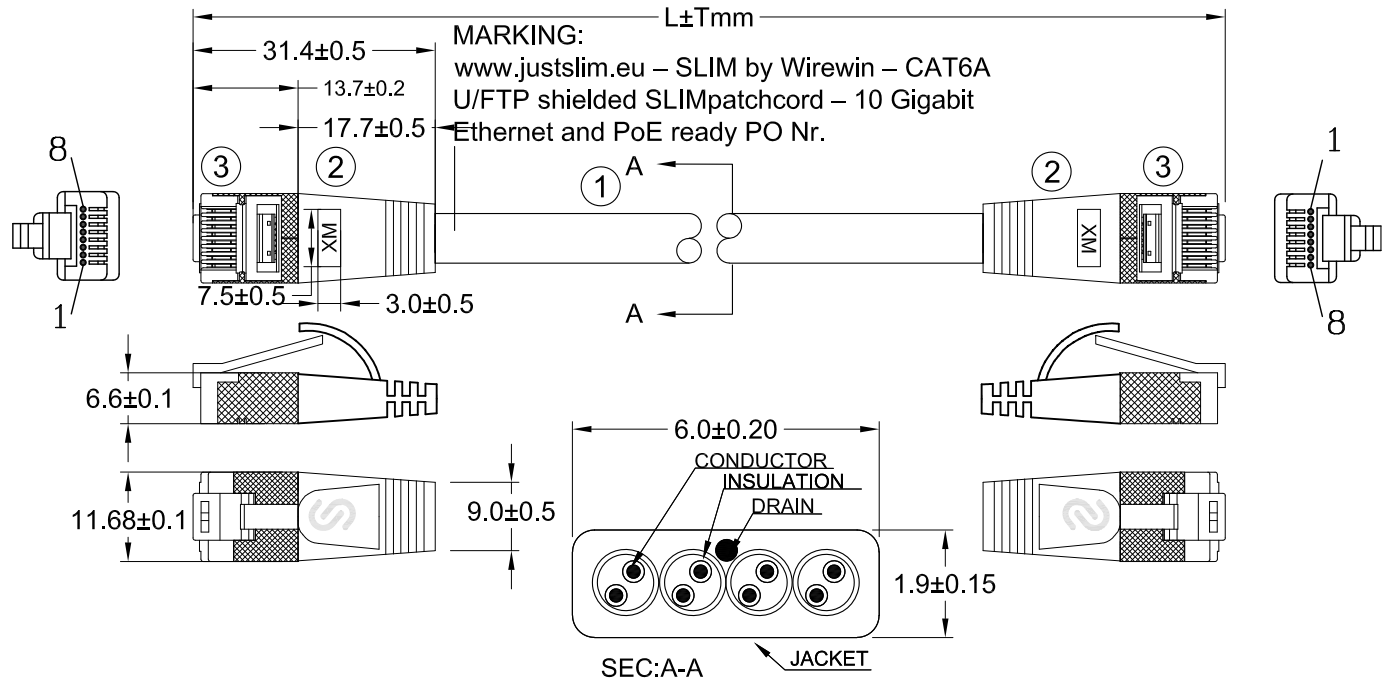
- Connector Type – Shielded 8P8C (RJ45) LONG LATCH, NICKEL-PLATED SHELL
- Gender – Male
- Connector Material – PC TRANSPARENT YELLOW
- Contact Material – Copper Alloy, Gold Plating – 3µm

## Overall Cable

- Jacket – PVC
- Minimum Average Thickness – 0.51mm
- Outer Diameter – 1.9±0.15\*6.0±0.20mm

## Electrical Characteristics

- Conductor DC Resistance – 15.2Ω/100m (maximum)
- Impedance – 100Ω
- Capacitance – 5600pf/100m
- Propagation Delay – 545ns/100m (maximum)
- Delay Skew – 45ns/100m (maximum)
- DSX-5000 Fluke Channel link test: 50m solid cable as testing cable; the other side of patch cable: 0.5m standard patch cable



P1	P2	T568B
1	1	WHITE/ORANGE
2	2	ORANGE
3	3	WHITE/GREEN
4	4	BLUE
5	5	WHITE/BLUE
6	6	GREEN
7	7	WHITE/BROWN
8	8	BROWN
S	S	SHIELDED

CUSTOMER P/N	LENGTH(mm)	TOLERANCE	METER MARK
PKW-STP-SLIM-K6A 0.1	100	-0/+20mm	0.1M
PKW-STP-SLIM-K6A 0.15	150	-0/+20mm	0.15M
PKW-STP-SLIM-K6A 0.25	250	-0/+20mm	0.25M
PKW-STP-SLIM-K6A 0.5	500	-0/+20mm	0.5M
PKW-STP-SLIM-K6A 0.75	750	-0/+20mm	0.75M
PKW-STP-SLIM-K6A 1.0	1000	-0/+20mm	1M
PKW-STP-SLIM-K6A 1.5	1500	-5/+20mm	1.5M
PKW-STP-SLIM-K6A 2.0	2000	-10/+30mm	2M
PKW-STP-SLIM-K6A 3.0	3000	-20/+30mm	3M
PKW-STP-SLIM-K6A 5.0	5000	-20/+30mm	5M
PKW-STP-SLIM-K6A 7.0	7000	-20/+30mm	7M
PKW-STP-SLIM-K6A 10.0	10000	-50/+50mm	10M
PKW-STP-SLIM-K6A 15.0	15000	-50/+50mm	15M
PKW-STP-SLIM-K6A 20.0	20000	-50/+50mm	20M
PKW-STP-SLIM-K6A 25.0	25000	-50/+50mm	25M

ITEM NO:	PKW-STP-SLIM-K6A		DRAWER	FW
TITLE			DATE	20230425
CUSTOMER			CHECKED	ACE
MATERIAL	SCALE		DATE	20230425
REV.	A	UNIT	DATE	
DRAWING NO:	81121102		APPROVED	
ACAD FILE	E:\		DATE	

NO.	SPECIFICATION	Q'TY
3	RJ45 PLUG: 8P8C 3U" GOLD PLATED TWO PIECES SHORT BODY PLUG; NICKEL PLATED SHELL.	
2	MOLDED: PVC MOLDED BOOT .	
1	CABLE: CAT.6A STP 4P/32AWG(7/0.08mm BC)+DRAIN(7/0.12mm TC) OD=1.9±0.15*6.0±0.20mm PVC JACKET.	
BOM LIST		

