



## Network Cable Copper

**LinkIT U/UTP Slim Cat.6a Black 1 m**  
AWG 28/7 | LSZH | Snagless | 3,6mm

Product number: SUTPC6A-0100M-SV

### Product Description

LinkIT Patch Cat.6a cables stand out with their impressive 50-micron gold plating, providing exceptional corrosion protection and optimal signal transmission. Another important feature is support for the PoE++ (Power over Ethernet++) standard, enabling robust power delivery over network cables. This makes the device ideal for power-hungry applications such as cameras, access points, and other devices that require extra power.

The modular plug is equipped with a tangle-free lock that prevents annoying cable tangles and ensures a seamless connection experience. The cable comes with a high-quality clear plug, providing extra strength and protection to the cable ends and ensuring durability and reliability, even in demanding environments.

The cable's performance meets the requirements for Cat.6a (ANSI/TIA-568-C.2 and ISO 11801).

### Main Specifications

|                           |   |
|---------------------------|---|
| <b>Brand</b>              | LinkIT                                      |
| <b>Color</b>              | Black                                       |
| <b>Length (m)</b>         | 1   |
| <b>Category</b>           | Cat.6a Slim                                 |
| <b>Connector type 1</b>   | RJ-45 male (8P8C)                           |
| <b>Connector type 2</b>   | RJ-45 male (8P8C)                           |
| <b>Conductor material</b> | Copper                                      |
| <b>Cable shielding</b>    | U/UTP - unshielded/unshielded twisted pairs |
| <b>Conductor design</b>   | Stranded                                    |



## Extended Specifications

|                                  |                           |
|----------------------------------|---------------------------|
| <b>AWG wire size</b>             | 28                        |
| <b>Transmission speed</b>        | 10Gbps                    |
| <b>Frequency (Mhz)</b>           | 500                       |
| <b>Cable structure</b>           | 4 x 2 AWG 28/7 (Stranded) |
| <b>Locking type</b>              | Snagless                  |
| <b>NVP value</b>                 | 69%                       |
| <b>Jacket material</b>           | LSZH                      |
| <b>Anti-kink sleeve</b>          | Assembled                 |
| <b>Pin Assignment</b>            | 1-2;3-6;4-5;7-8           |
| <b>Cable Diameter (mm)</b>       | 3.6                       |
| <b>Halogenfree</b>               | ✓                         |
| <b>Fire retardant version</b>    | ✓                         |
| <b>Connector contact plating</b> | 50µin gold plated         |
| <b>Temperature</b>               | -20°C to + 75°C           |
| <b>Certifications</b>            | CE, RoHS                  |

## Single packaging

|                 |     |
|-----------------|-----|
| <b>Unit</b>     | PCE |
| <b>Quantity</b> | 1   |



## Dimensional Sketches

**RoHS COMPLIANT**

**Overview**  
 Bandwidth: 500MHz  
 OD: 3.6mm  
 Conductor: 28AWG  
 Approvals: RoHS  
 Connector: 50U" gold plated RJ45 connector

**Physical Characteristics**  
 • Cable Type – Cat6A UTP  
 • Connector Type(s) – RJ45  
 • Wiring Scheme – T568B  
 • Temperature Rating – -20°C to +75°C  
 • Voltage Rating – 30V

**Conductor (Qty. 4 twisted pair)**  
 • Conductor Type – 28AWG(7/0.12), Stranded Bare Copper  
 • Insulation – HDPE  
 • Diameter – 0.60±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, Gold Plating 50U"  
 • Hood Material – TRANSPARENT ASSEMBLE

**Overall Cable**  
 • Jacket – LSZH  
 • Minimum Average Thickness – 0.60mm  
 • Outer Diameter – 3.6 ± 0.2mm

**Electrical Characteristics**  
 • Conductor DC Resistance – 24.2Ω/100m (maximum)  
 • Impedance – 100Ω  
 • Capacitance – 5600pf/100m  
 • Propagation Delay – 545ns/100m (maximum)  
 • Delay Skew – 45ns/100m (maximum)  
 • Fluke DSX 8000 Channel Test ( Randomly test, not individually test)  
 • IEC 60332-1; IEC 60754  
 • IEEE 802.3af, 802.3at, 802.3bt

MARKING: LINKIT CATEGORY 6A U/UTP PATCH CABLE  
STRANDED 28AWG LSZH

| COLOUR        | LENGTH(mm) | TOLERANCE |
|---------------|------------|-----------|
|               | 200        | ±15mm     |
|               | 300        | ±15mm     |
|               | 500        | ±15mm     |
|               | 750        | ±15mm     |
|               | 1000       | ±20mm     |
| Blue-RAL5015  | 1500       | ±20mm     |
| Green-RAL6029 | 2000       | ±30mm     |
| Grey-RAL7035  | 2500       | ±30mm     |
| White-RAL9003 | 3000       | ±30mm     |
| Red-RAL3031   | 3500       | ±30mm     |
|               | 4000       | ±30mm     |
|               | 4500       | ±30mm     |
|               | 5000       | ±30mm     |
|               | 7500       | ±60mm     |
|               | 10000      | ±80mm     |

| P1 | P2 |              |
|----|----|--------------|
| 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        |

| ITEM NO:    | LinkIT U/UTP Slim CAT.6A 28AWG Patch Cable | DRAWER        | LY           |
|-------------|--|---------------|--------------|
| TITLE       |  | DATE          | 20181218     |
| CUSTOMER    |  | CHECKED DATE  | MTC 20181218 |
| MATERIAL    |  | APPROVED DATE |              |
| REV.        | A  | SCALE         |              |
| DRAWING NO: | 81218093                                   | UNIT          | MM           |
| ACAD FILE   | E:\  |               |              |
|             |  |               |              |

| NO.      | SPECIFICATION  | QTY |
|----------|--|-----|
| 3        | RJ45 PLUG: 8P8C 50U" GOLD PLATED TWO-PIECE PLUG.                       |     |
| 2        | MOLDED: TRANSPARENT ASSEMBLE BOOT .                                    |     |
| 1        | CABLE: CAT6A U/UTP 4P/28AWG(7/0.12±0.008BC) OD=Ø3.6±0.2MM LSZH JACKET. |     |
| BOM LIST |  |     |

