

**Overview**

Bandwidth: 250MHz  
 OD: 5.8mm  
 Conductor: 24AWG  
 Approvals: RoHS  
 Connector: 50U' gold plated RJ45 connector

**Physical Characteristics**

- Cable Type – CAT6 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 – 24AWG(7/0.18mm), Stranded BC
- Insulation – HDPE
- Diameter – 0.99±0.05mm
- Pair Identification:
  - Pair1=Orange, Orange-White
  - Pair2=Blue, Blue-White
  - Pair3=Green, Green-White
  - Pair4=Brown, Brown-White

**Connector Type (Qty. 2)**

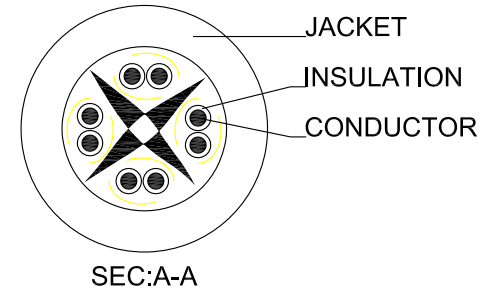
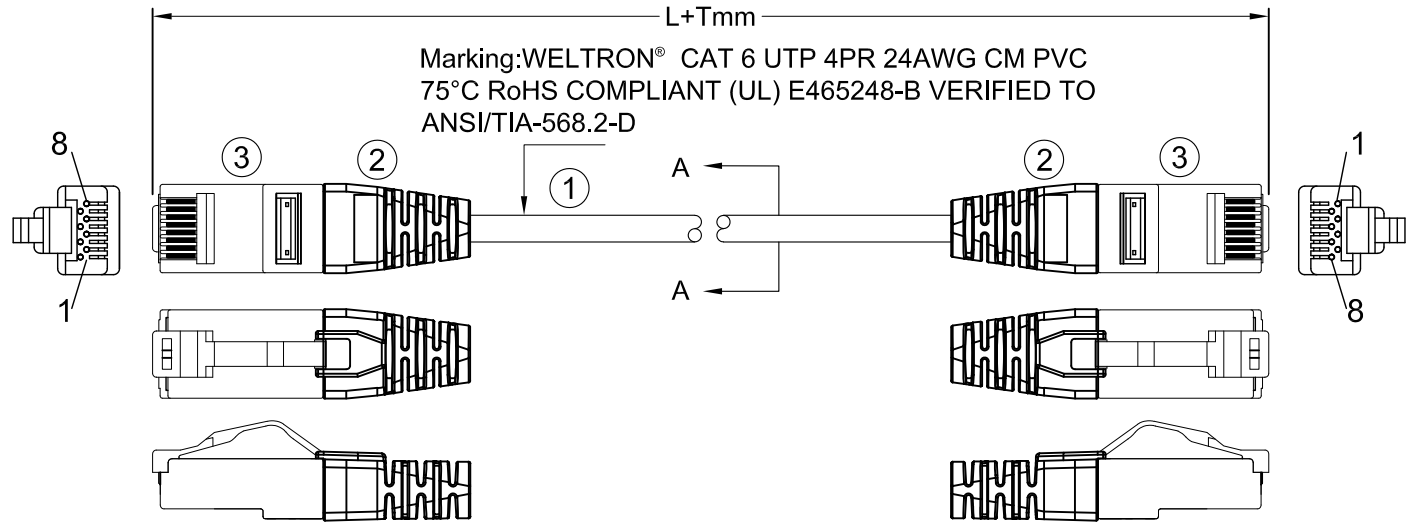
- Connector Type – 8P8C (RJ45)
- Gender – Male
- Connector Material – PC
- Contact Material – Copper Alloy, 50U' Gold Plating
- Hood Material – TRANSPARENT ASSEMBLE BOOT .

**Overall Cable**

- Jacket –CM PVC
- Minimum Average Thickness – 0.60mm
- Outer Diameter – 5.8 ± 0.15mm

**Electrical Characteristics**

- Conductor DC Resistance – 9.58Ω/100m (maximum)
- Impedance – 100Ω
- Capacitance – 5600pf/100m
- Propagation Delay – 545ns/100m (maximum)
- Delay Skew – 45ns/100m (maximum)
- PASS DSX 8000 Channel Test ( Randomly test)



| 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        |

|          |                                       |      |    |               |          |
|----------|---------------------------------------|------|----|---------------|----------|
| ITEM NO: | CAT.6 UTP Patch Cable with Clear Boot |      |    | DRAWER DATE   | LCJ      |
| TITLE    |                                       |      |    | CHECKED DATE  | MTC      |
| CUSTOMER |                                       |      |    | APPROVED DATE | 20191220 |
| MATERIAL | SCALE                                 | UNIT | MM |               |          |
| REV.     | A                                     |      |    |               |          |

|          |  |      |
|----------|--|------|
| 3        | RJ45 PLUG: 8P8C 50U' GOLD PLATED PLUG.                                 |      |
| 2        | MOLDED:TRANSPARENT ASSEMBLE BOOT .                                     |      |
| 1        | CABLE: CAT6 UTP 4P/24AWG(7/0.18BC±0.008) OD=Ø5.8±0.15MM CM PVC JACKET. |      |
| NO.      | SPECIFICATION  | Q'TY |
| BOM LIST |  |      |

|             |                          |                |
|-------------|--------------------------|----------------|
| DRAWING NO: | 580718HB<br>120-91220102 | <b>weltron</b> |
| ACAD FILE   |                          |                |