

**Specification for Category 6A U/UTP LSZH Stranded Lan Cable**  
**Spec. No. S1050108 Version: A Date: January 08, 2016**

**28AWG x 4P**

**ANSI/TIA-568-C.2 : Patch Cable Stranded Conductor**

**1.Conductor: Material / Size Bare copper / 28AWG**

**2.Insulation :** HDPE(CMI-75E)

Min. Avg. Thickness: 0.13 mm

Min. Thickness: 0.10 mm

**3.Color Code:**

Pair 1: Blue & White/Blue

Pair 2: Orange & White/Orange

Pair 3: Green & White/Green

Pair 4: Brown & White/Brown

**4.Jacket: LSZH (low-smoke & non-halogen) compound**

Min. Avg. Thickness: 0.545mm

Min. Thickness: 0.450 mm

Approximate O.D.: 4.3 mm +/- 0.3mm

**5.Electric Requirements:** (Cable length: 100M)

Characteristic Impedance( $Z_0$ ): 85~115  $\Omega$  (1~500 MHz)

DC. Resistance Capacitance Unbalance: 5%

Pair-to-Ground Capacitance Unbalance: 330 pF/100M Max

Conductor Resistance: 22.3  $\Omega$ / 100M 20°C Max

Mutual Capacitance: 5600 pF/100M Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 68.2 %

**6 Temperature Range:** Installation Temperature: 0 to 50°C

Storage Temperature: -20 to 70°C

Operation Temperature: -10 to 60°C

**7.PRINTING IN BLUE INK :**

**4PR 28AWG PATCH CABLE ANSI/TIA-568-C.2 Category 6A U/UTP 10G LSZH**

**PT pactech FlexLite STRANDED BATCH NO. ROHS**

**ROHS Compliant**

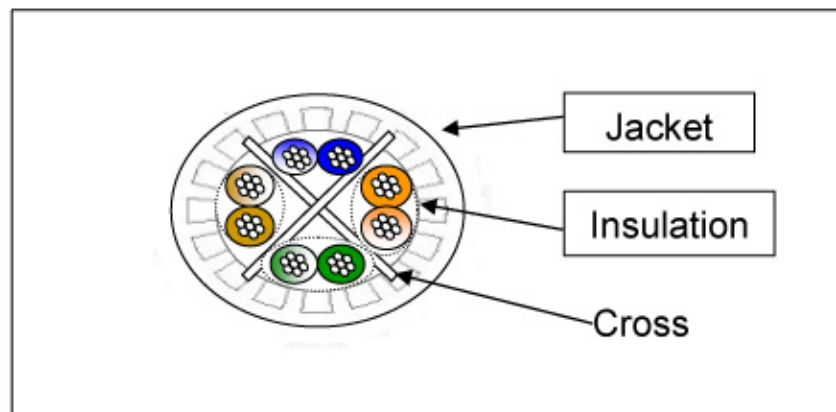
| SPECIFICATION | ERP NO.: | Product No.        | Date |
|---------------|----------|--------------------|------|
|               | - 1 -    | P-W-MM-C6AX-28L-1K |      |

Drawing :

Check :

Approved :

J. Lai

**Category 6A U/UTP LSZH Stranded Lan Cable**


| Category 6A      |                                   |                |      |      |                |            |            |
|------------------|-----------------------------------|----------------|------|------|----------------|------------|------------|
| Frequency<br>MHz | Insertion loss<br><b>Stranded</b> | Return<br>Loss | NEXT | ACRF | Prop.<br>Delay | PS<br>NEXT | PS<br>ACRF |
| *1               | 6.5                               | 20.0           | 74.3 | 67.8 | 570            | 72.3       | 64.8       |
| *10              | 9.8                               | 25.0           | 59.3 | 47.8 | 545            | 57.3       | 44.8       |
| *20              | 12.4                              | 25.0           | 54.8 | 41.8 | 542            | 52.8       | 38.8       |
| *31.25           | 16.5                              | 23.6           | 51.9 | 37.9 | 540            | 49.9       | 34.9       |
| *62.5            | 21.8                              | 21.5           | 47.4 | 37.9 | 539            | 45.4       | 28.9       |
| *100             | 28.5                              | 20.1           | 44.3 | 27.8 | 538            | 42.3       | 24.8       |
| *200             | 41.2                              | 18.0           | 39.8 | 21.8 | 538            | 37.8       | 18.8       |
| *250             | 46.5                              | 17.3           | 38.3 | 19.8 | 536            | 36.3       | 16.8       |
| *300             | 51.3                              | 16.8           | 37.1 | 18.3 | 536            | 35.1       | 15.3       |
| *400             | 60.6                              | 15.9           | 35.3 | 15.8 | 536            | 33.3       | 12.8       |
| *500             | 67.9                              | 15.2           | 33.8 | 13.8 | 536            | 31.8       | 10.8       |

The asterisked (\*) \*Values show on tables above are for reference purpose only.

**ROHS Compliant**

| SPECIFICATION | ERP NO.: | Product No.        | Date |
|---------------|----------|--------------------|------|
|               |          | P-W-MM-C6AX-28L-1K |      |

Drawing :

Check :

Approved :

J. Lai