



• Test condition:

Storage temperature

The test and measurement, unless otherwise specified, shall be carry out at a temperature of 15 to  $35^{\circ}$ C,Relative humidity of 25 to 85%,and atmospheric of 86 to 106kPa. However,when any doubt arises on the judgment value it, the test and measurement shall be carry out at a temperature of  $20\pm 2^{\circ}$ C,relative humidity of 60 to 70%,and atmospheric pressure of 86 to 106Pa.

-25℃~+85℃, 85% RH Max

Technical data:
 Electrical:

| NO. | Item                     | Test Method   | Requirement                                 |
|-----|--------------------------|---|---|
| 1.1 | Contact<br>Resistance    | Mate connectors,<br>Measure by dry circuit,20mV Max,100mA<br>{EIA-364-23}                             | 40mΩ Max<br>(initial)                       |
| 1.2 | Insulation<br>Resistance | Unmated connectors, apply 500V DC between adjacent terminal or ground. $\{EIA-364-21\}$               | 500MΩ Min                                   |
| 1.3 | Withstanding<br>Voltage  | Unmated connectors, apply 1000V AC for 1 minute between adjacent terminal or ground. $\{EIA-364-20\}$ | No Break down<br>Current Leakage:<br><0.5mA |
|     | Mechanical:              |   |   |

 SPECNO.:20170610
 R E V . : X A E C N N O . :
 PAGE : 1/6

# SHENZEN LINKO ELECTRIC CO., LTD

| NO.      | Item                | Test Method  | Re  | equirement          |
|----------|---------------------|--|---|---------------------|
| 2.1      | Insertion<br>force  | Measure mating force necessary to mate connector. Operation speed: 12.5mm/minute $\{EIA-364-13\}$  |   | 2.25N {2.27kgf} Max |
| 2. 2     | Withdrawal<br>force | Measure unmating force neces<br>connector.Operation speed:12<br>{EIA-364-13}   |   |                     |
| 2.3      | Normal force        | Measurements done in assembl<br>with nominal deflection, 5 s<br>each unique contact. {EIA-36   | amples of 0.  | 1N min              |
| 2. 4     | Retention<br>Force  | Perform a forced disassembly<br>to each contact at a maximum<br>millimeters (1.0 inch) per m<br>The contact retention featur<br>allow the contact to become<br>from their proper position i<br>Reference to EIA-364-29 Meth<br>Destruction | rate of 25.4<br>inute until<br>es fail and<br>dislodged<br>n the housing. | √ min               |
|          |                     |  |   | ⊘                   |
| ECNO.:20 | 170610              | REV.: XAECN NO.  | :   | PAGE : 2/6          |

# SHENZEN LINKO ELECTRIC CO., LTD

| NO.  | Item                | Test Method   | Requirement           |                          |
|------|---------------------|---|-----------------------|--------------------------|
| 2. 5 | Durability          | Mated and unmated connectors up to 750<br>cycles at a maximum rate of 200 cycles<br>per hour<br>{EIA-364-09}  | Appearance            | NO damage                |
|      |                     |   | Contact<br>Resistance | 40mΩ Max                 |
|      |                     |   | Insertion<br>force    |                          |
|      |                     |   | Withdrawal<br>force   |                          |
| 2.6  | Vibration           | Amplitude:1.52mm.<br>Sweep time: $50 \sim 2000 \sim 50$ Hz<br>Duration:10 minutes in each(total of 30<br>minutes)X,Y,Z azes.<br>{EIA-364-28 Test condition V test<br>letter A}  | Appearance            | NO damage                |
|      |                     |   | Discontinuity         | 1<br>Microsecond<br>Max. |
| 2. 7 | Mechanical<br>Shock | <pre>Pulse width: 11 msec; Mate connectors to<br/>490m/s2 50g' s half-sine shock pulses of<br/>11ms duration. Three shocks in each<br/>direction applied along three mutually<br/>perpendicular planes for a total of 18<br/>shocks<br/>{EIA 364-27B}</pre> | Appearance            | NO damage                |
|      |                     |   | Contact<br>Resistance | 40mΩ Max                 |
|      |                     |   |                       |                          |

|         | Environment        |  |   |  |
|---------|--------------------|--|---|--|
| NO.     | Item               | Test Method  | Requirement   |  |
| 3. 1    |                    | Temperature: $40 \pm 2$ °C<br>Relative Humidity: $90 \sim 95\%$<br>Duration: 4 cycles (96 hours)<br>Upon completion of the test, specimens<br>conditioned at ambient room conditions for 1<br>{EIA-364-31<br>Test condition A method III}  | Appearance NO damage  |  |
|         | Humidity test      |  | Contact Res 40m $\Omega$ Max<br>Insulation  |  |
|         |                    |  | Resistance TOOM & Min   |  |
|         |                    |  | Withstandin<br>Voltage No breakdow  |  |
| 3.2     | Salt mist spray    | Salt concentration: $5\% \pm 1\%$<br>Temperature: $35 \pm 2$ °C;<br>Testing time: $24 \pm 2$ hours ,After salt is<br>removed by running water and a drop is<br>removed, it is measured.<br>{EIA-364-26A, condition A}  | NO damage<br>Appearance shall not be<br>extremely rust.   |  |
| 3. 3    | Thermal shock      | Mate connentors together and perform the<br>test as follows.<br>10 cycle of: A)-55℃ for 30 minutes;<br>B)+85℃ for 30 minutes<br>{EIA-364-32, Condition I}  | Appearance NO damage  |  |
|         |                    |  | Contact Res 40m $\Omega$ Max  |  |
| 3.4     | Heat test          | The connector is exposed to $70\pm 2$ °C atmosphere for 96 hours. After testing it shall be left alone for 1 to 2 hours in room ambient.   | Appearance NO damage  |  |
|         |                    |  | Contact Res 40mΩ Max  |  |
| 3.5     | Cold test          | The connector is exposed to $-40\pm 2$ °C atmosphere for 96 hours. After testing it shall be left alone for 1 to 2 hours in room ambient.  | Appearance NO damage  |  |
|         |                    |  | Contact Res 40mΩ Max  |  |
| 3. 6    | Waterproof<br>Test | <ol> <li>IEC 60529, IP67</li> <li>The connector is mounting with a sealing</li> <li>Test box which the plug-in hole is opening.</li> <li>Completely immerse the full test boxes into water.</li> <li>The connector plug-in hole is located 1000 mm below the surface of the water.</li> <li>Under water test duration is 30 min.</li> <li>After immersion, allowed dry the receptacle plug-in hole by pressure air before dielectric withstanding voltage test.</li> </ol> | <pre>in hole is<br/>all test boxes<br/>le is located<br/>of the water.<br/>n is 30 min.<br/>dry the<br/>y pressure air</pre> No water permeated<br>into the test boxes<br>by visual inspection<br>after test. |  |
| SPECNO. | :20170610          | REV.: XAECN NO. :  | PAGE : 4/6  |  |

### • Material Introduction:

#### Basic Information

Complying with class D or CAT 5e standard of TIA/EIA 568B and ISO/IEC11801, data transfer rate is up to 10Gbit/s. Multi-style connecting modes. 1/4 bayonet connect (YTO1), quickly plug /unplug(YTO9/O4), can be used in harsh environments. Shield system with high frequency noise immunity and electromagnetic interference protection.

#### Packing and Storage:

The production are packed in plastic bag, The packing list must be set in every carton, which has been given clear information of material designation, part number, production order number, packet quantity and total product quantity. The packaged production should be stored in the storeroom ,in which Environment Temperature is  $-40^{\circ}$ ° +80°C, Relative humidity <85%, no acidic, alkaline and other corrosive gases.

#### Mating Type.

Mated with: LP16-RJ45 connector(male)

■ Applicable Standards : Meeting FCC、TIA/EIA 568、MIL、IEC、CNS Standards



# PRODUCT CODE

## SHENZEN LINKO ELECTRIC CO., LTD

