



- **Material Designation:** LP16 series waterproof connector



- **Materials Processes, Surface Treatment**

- **Contact**

Materials: Male Pin: Brass; Female Pin: Phosphor Bronze

Processes: Machining

Surface Treatment: Gold Plating for 4u" over nickel

- **Shell**

Materials: PBT

Processers: Injection

- **Insulator**

Materials :PBT

Processes: Injection

Color: Black

- **Material Introduction:**

- **Basic Information**

The performance of this connector is in conformity with Linko electric enterprise standard(in accordance with the TIA/EIA 568, MIL, IEC, CNS, etc.). the socket and adapter plug use spring snap lock for connection, convenient and reliable, shock resistance. The socket is mounted on the panel through the square flange, and the contact part shall be welded with the end of the conductor.

Offer standard insert arrangements from 2-9 pins.

- **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  $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$  ,Relative

humidity ≤ 85%, no acidic, alkaline and other corrosive gases.

■ **Mating Type.**

Mated with: LP16 connector (male)

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

■ **Process Requirements**

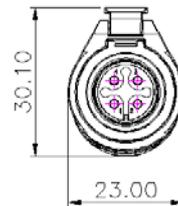
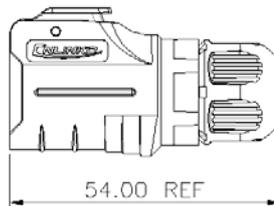
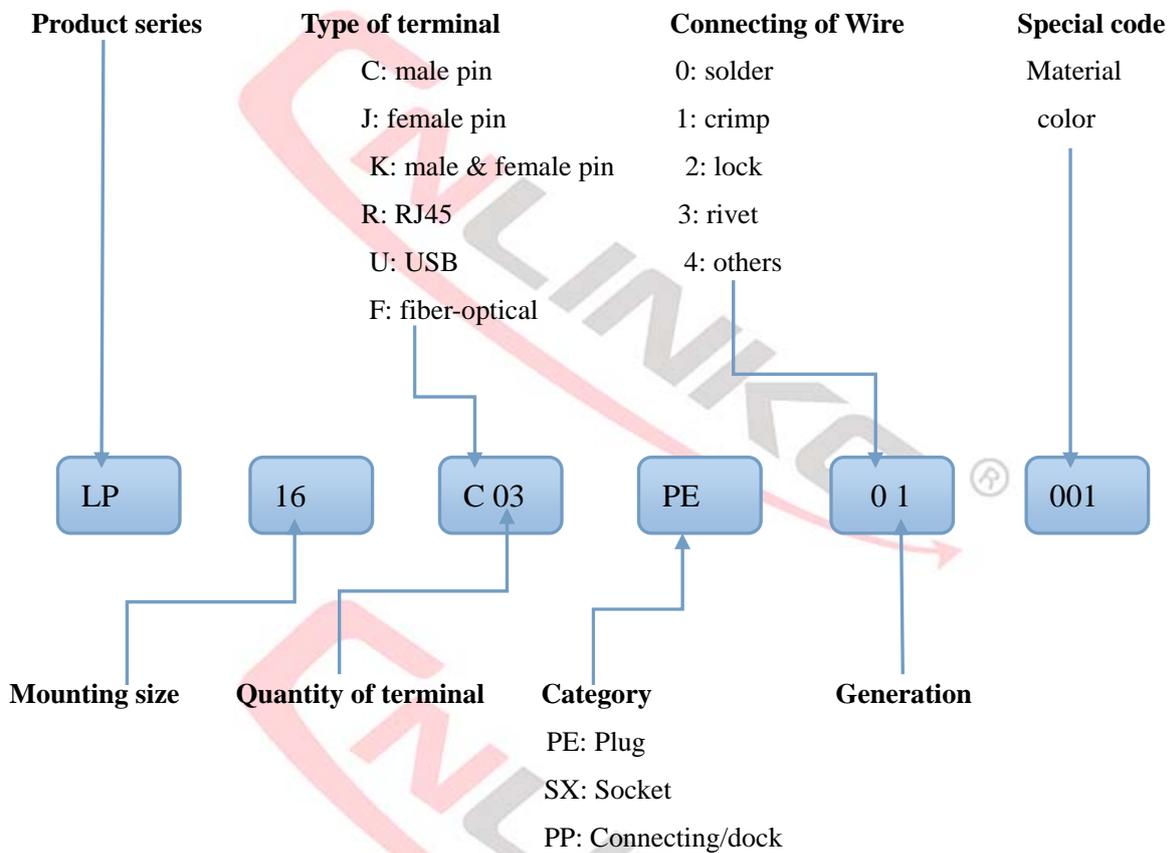
◆ **According to form of terminal**

The form of terminal is welding, the welding must be firm and cannot have pseudo soldering

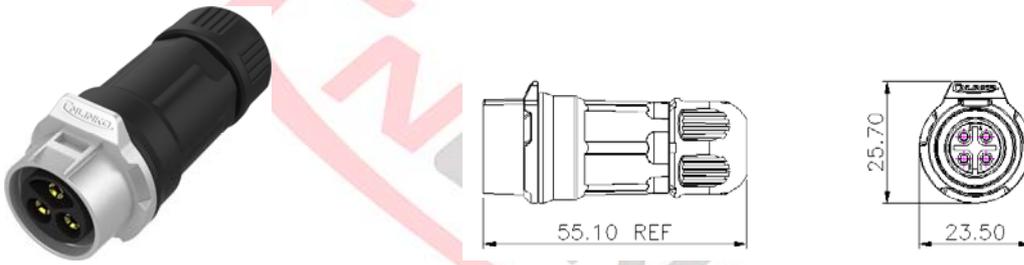
◆ **According to form of mounting**

Please see the mounting hole figure.

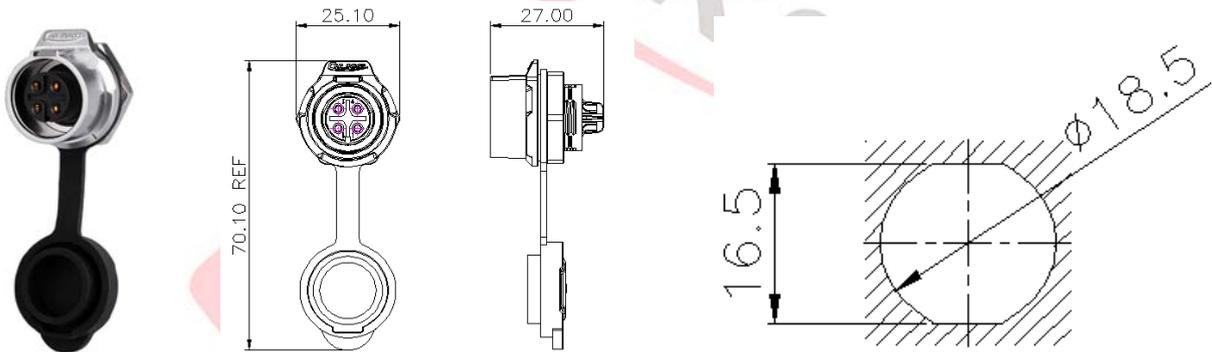
**PRODUCT CODE**



LP-16-C\_\_\_PE-XX-001 Plug

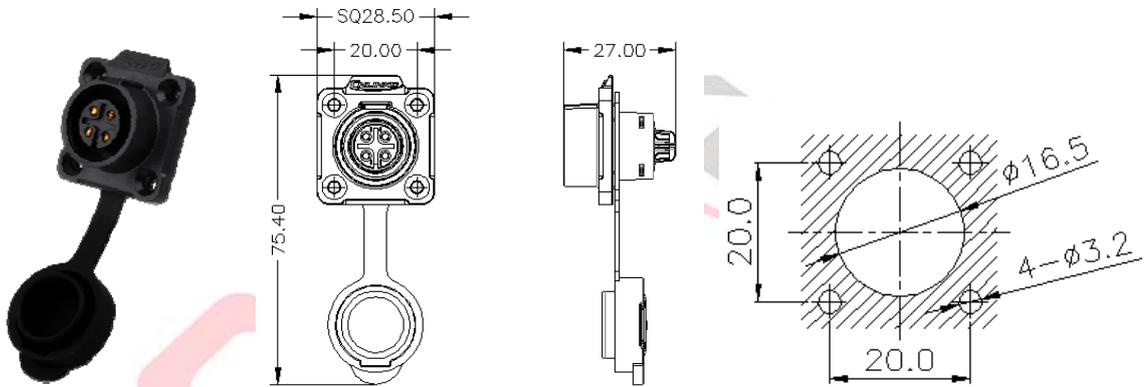


LP-16-J\_\_\_PP-XX-001 Butt socket



LP-16-J\_\_\_SX-XX-001 Single hole female socket

Mounting hole



LP-16-J\_\_\_SX-XX-001 Four holes socket

Mounting hole

● Product Characteristics Form

|                   |          |            |           |           |            |            |           |
|-------------------|----------|------------|-----------|-----------|------------|------------|-----------|
| Number of pins    | Two pins | Three pins | Four pins | Five pins | Seven pins | Eight pins | Nine pins |
| Rated current     | 10A      | 10A        | 10A       | 5A        | 5A         | 5A         | 5A        |
| Operating voltage | 400V     | 400V       | 400V      | 250V      | 250V       | 250V       | 250V      |

|                                |   |           |           |           |           |           |           |
|--------------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| Withstanding voltage           | 2500V   | 2500V     | 2500V     | 1500V     | 1500V     | 1500V     | 1500V     |
| Contact resistance             | <2.5mΩ  | <2.5mΩ    | <2.5mΩ    | <5.0mΩ    | <5.0mΩ    | <5.0mΩ    | <5.0mΩ    |
| Temperature rise               | 10A 30℃ ↓ ; 12A 40℃ ↓ ; 15A 50℃ ↓   |           |           |           |           |           |           |
| Contact dimension              | Φ1.5*2  | Φ1.5*3    | Φ1.5*4    | Φ1.0*5    | Φ1.0*6    | Φ1.0*7    | Φ1.0*8    |
| Insertion and extraction force | 1.2N Max.   | 1.8N Max. | 2.4N Max. | 1.5N Max. | 1.8N Max. | 2.4N Max. | 2.7N Max. |
| Mating cycle                   | 1700 times  |           |           |           |           |           |           |
| Screw torque                   | 42-53 (N.m) Torque wrench 200 (N.m)   |           |           |           |           |           |           |
| Temperature and humidity       | -40℃ ~ +80℃ ; 40℃, 85%RH.   |           |           |           |           |           |           |
| Vibration                      | Frequency: 5~200Hz, Amplitude: 5mm, Speed : 10m/s,<br>No instantaneous short circuit in 0.10us. |           |           |           |           |           |           |
| Impact resistance              | 294m/s <sup>2</sup>   |           |           |           |           |           |           |
| Salt spray                     | PH6.5-7.2, NaCl, 5% 48H   |           |           |           |           |           |           |
| Wire specification (power)     |   |           |           |           |           |           |           |
| Wire specification (signal)    |   |           |           |           |           |           |           |
| Applicable wire diameter       | Scope of application (OD: Φ1-Φ8.5) mm . With waterproof ring (Φ9mm , Φ7mm)                      |           |           |           |           |           |           |
| Protection level               | IP67  |           |           |           |           |           |           |
| Certification standard         | Comply with the TUV and UL certification standards  |           |           |           |           |           |           |
| Operation tool                 | Design with national standard opening wrench (see attached table)                               |           |           |           |           |           |           |