

EW-LP16 Series Waterproof Connectors Datasheet

1 Product name : EW-LP16 series waterproof connectors



Terminal
Male plug
Plastic



Terminal
Female Socket
Plastic



Panel Mount
Female Socket
Plastic



Flange Mount
Female Socket
Plastic



Flange Mount
Female Socket
Metal

2 Materials and Processes

| Part categories | Material | Processes |
|-----------------|--------------------------|-------------------------------|
| Contact | Male Pin: Copper Alloy | Gold-Plated |
| | Female Pin: Copper Alloy | |
| Housing | PBT/Zinc Alloy | Injection Molding/Die Casting |
| Insulator | PBT | Injection Molding |
| Seal | Silicone | Solid State Pressing |

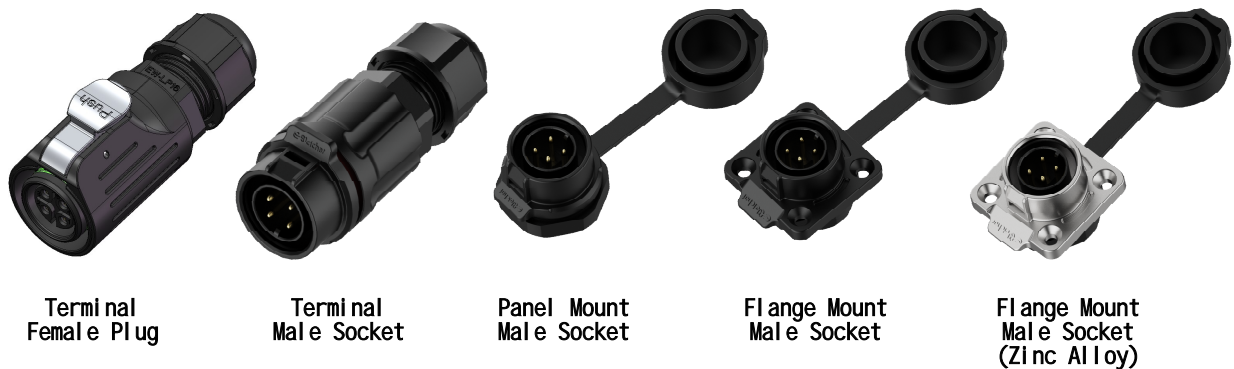
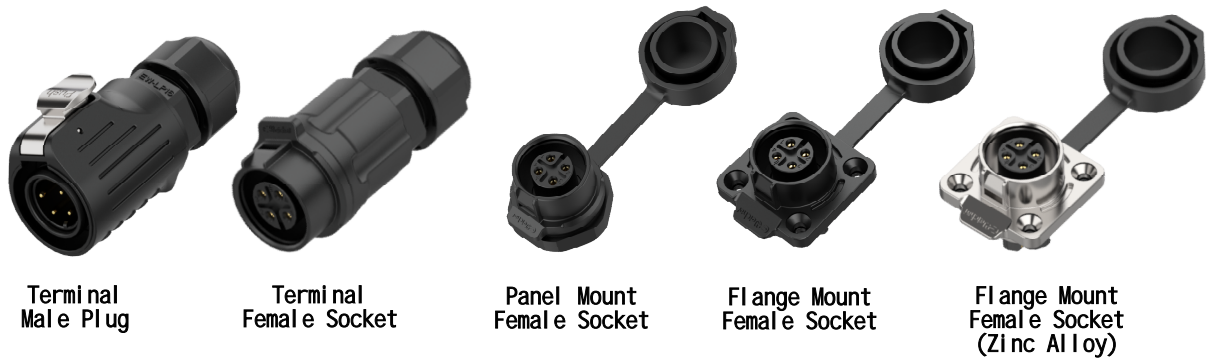
3 Materials and Processes

This product's technical performance complies with international standards such as UL, TUV; it features a one key pluggable metal latch design for plugging and unplugging, which ensures secure locking and smooth mating and demating, with the number of repeat mating and demating exceeding 1900 times; the shell is made of high-performance PBT engineering plastic, ensuring stable electrical performance of the product, as well as excellent physical and chemical properties such as high-temperature resistance and corrosion resistance; at the same time, the conductive parts are processed with a gold plating surface treatment, offering excellent conductivity and meeting the product's temperature rise requirements even in high-temperature environments.

This series of products offers a variety of models, providing a choice of 2 to 9 conductors.

Compliance standards: Meets UL, TUV, and other standards.

4 The inner cores of the LP12 series products can be swapped between male and female configurations.



4.1 Product Coding Rules

EW-LP##X-XX X X X X X XX



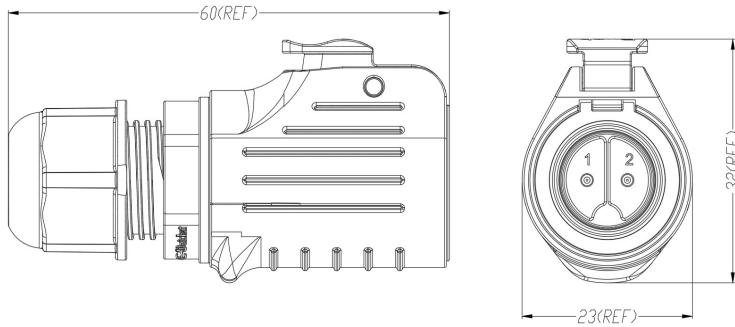
4.2 Installation Requirements

Soldering: The wire is connected to the product using a soldering method, which should be securely soldered without any cold solder joints;

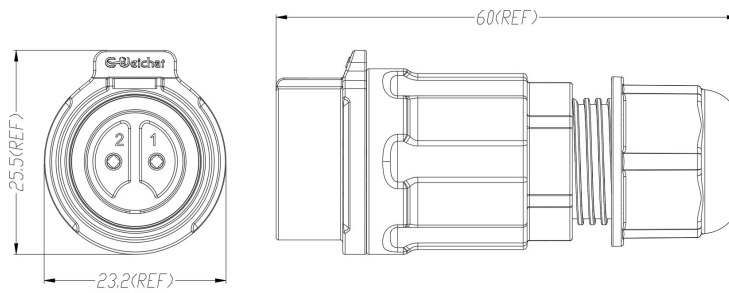
Screw Wiring: The wire is connected to the product using a screw-fastening method.

Product Outer Dimensions and Mounting Dimensions as Follows:

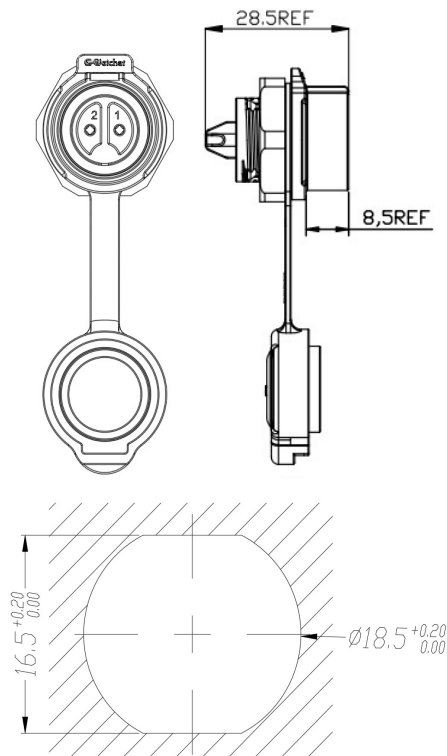
● EW-LP16S-#P



● EW-LP16L-#P

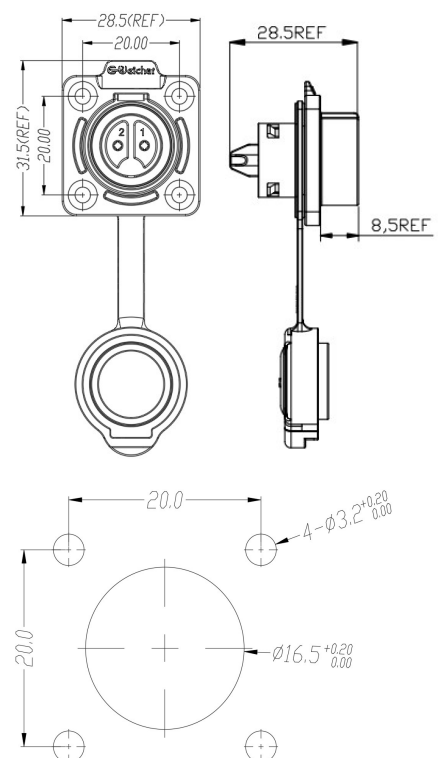


● EW-LP16L-#P



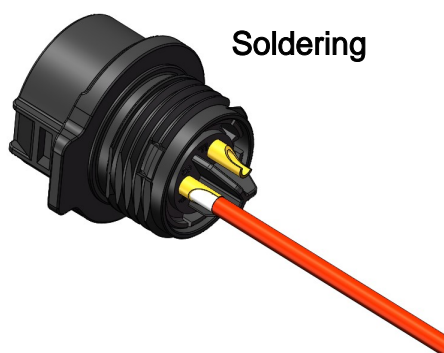
Mounting Hole Dimensions








● EW-LP16P-#P



Mounting Hole Dimensions

5 Product Performance



| Part Number | | EW-LP16-2P | EW-LP16-3P | EW-LP16-4P | EW-LP16-5P | EW-LP16-7P | EW-LP16-8P | EW-LP16-9P |
|------------------------|--------------|---|---|---|---|--|---|---|
| Image | |  |  |  |  |  |  |  |
| | | 2 Cores | 3 Cores | 4 Cores | 5 Cores | 7 Cores | 8 Cores | 9 Cores |
| Wiring Method | Solder | √ | √ | √ | √ | √ | √ | √ |
| | Wiring Screw | √ | √ | √ | √ | × | × | × |
| Con-tact | Solder | φ 1. 5*2 | φ 1. 5*3 | φ 1. 5*4 | φ 1. 0*5 | φ 1. 0*7 | φ 1. 0*8 | φ 1. 0*9 |
| | Screw Wiring | φ 1. 5*2 | φ 1. 5*3 | φ 1. 5*4 | φ 1. 0*5 | × | × | × |
| Wire Gauge | | 1. 5 mm ² /16 AWG | | | 0. 5 mm ² /20 AWG | | | |
| Rated Current | | 10A | | | 5A | | | |
| Operating Voltage | | 400V AC | | | 250V AC | | | |
| Withstand Voltage | | 2000V AC | | | 1500V AC | | | |
| Resistance Contact | | < 3 mΩ | | | < 5 mΩ | | | |
| Temperature Rise | | 10A ≦45K | | | 5A ≦45K | | | |
| Insulation Resistance | | ≧ 1000 MΩ | | | | | | |
| Mechanical Life | | ≧1900 times | | | | | | |
| Temperature Ambient | | -40~+85 ℃ | | | | | | |
| High-Temperature Aging | | 85 ℃ / 168 H | | | | | | |
| Salt Spray Test | | PH6. 5-7. 2, NaCl, 5% 48H | | | | | | |
| IP Rating | | IP67 (Option: IP68 1m/2H) | | | | | | |
| (OD) | | Power Supply φ 7~9 mm Signal Supply φ 4~6. 5 mm | | | | | | |