深圳市惟兴科技有限公司
Shenzhen Weichat Technology Co.,Ltd.

EW-LP12 Series Waterproof Connectors Datasheet

1 Product name：EW-LP12 series waterproof connectors

Male Plug
All Plastic

Female Socket
All Plastic

Panel Mount
Famale Socket
All Plastic

Flange Mount
Famale Socket
All Plastic

Male Plug
Plastic+Metal

Female Socket
Plastic+Metal

Panel Mount
Famale Socket
Plastic+Metal

Flange Mount
Famale Socket
Plastic+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 Product Introduction

This product's technical performance is in compliance with international standards such as UL, TUV; the locking mechanism of the male and female ends with one ey kpluggable design, which has the advantages of safe and secure locking, smooth plugging and unplugging, and the number of repeat plugging and unplugging can exceed 1900 times; the shell is made of high-performance PBT engineering plastic, ensuring the product has stable electrical performance, 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 8 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.

Cable Mount Male Plug | Cable Mount Female Socket | Flange mount female Socket | Panel mount female Socket

Cable Mount Female Plug | Cable Mount Male Socket | Flange mount Male Socket | Panel mount Male Socket

4.1 Product Coding Rules

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

- Wire Clamping Gasket Diameter (0/2 digits):
- Color of Wire Clamping Gasket or Waterproof Boot: C - Gray; B - Black
- Conductive Part Configuration (1-letter code): M - Male Pin; F - Female Pin
- Intermediate Housing Color: B - Black; Y - Yellow; L - Blue
- Main Body Material (1-digit code): 0 - Zinc Alloy; 5 - PBT
- Wiring Method: 1 - Screw Wiring; 2 - Solder ; 4 - Crimping
- Number of Conductors: 02 - 2 Core; 03 - 3 Core; 04 -4 Core...
- Interface Type: S - Plug; L - Straight Terminal Socket/Panel Mount Socket; P - Flange Mount Socket
- Models:12/16/20/24/28……
- Product Series: LP
- Abbreviation for Company Name: E-Weichat

4.2 Installation Requirements

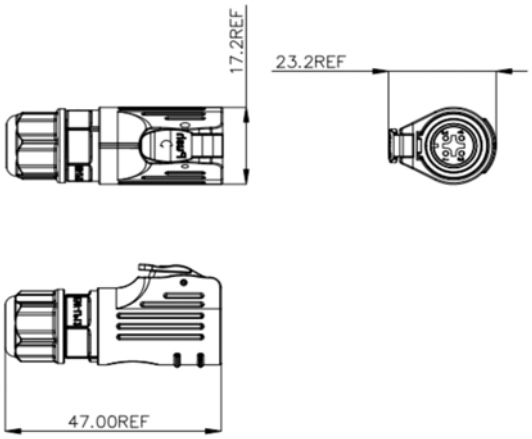
4.2.1

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

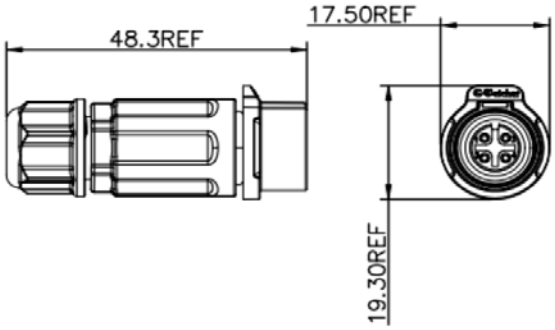
Screw Wiring Style: The wire is connected to the product using a screw-fastening method.

Product Outer Dimensions and Mounting Dimensions as Follows:

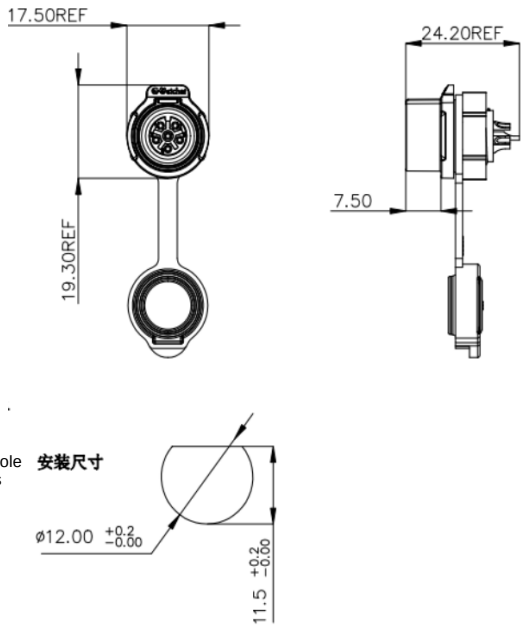
● EW-LP12S-#P



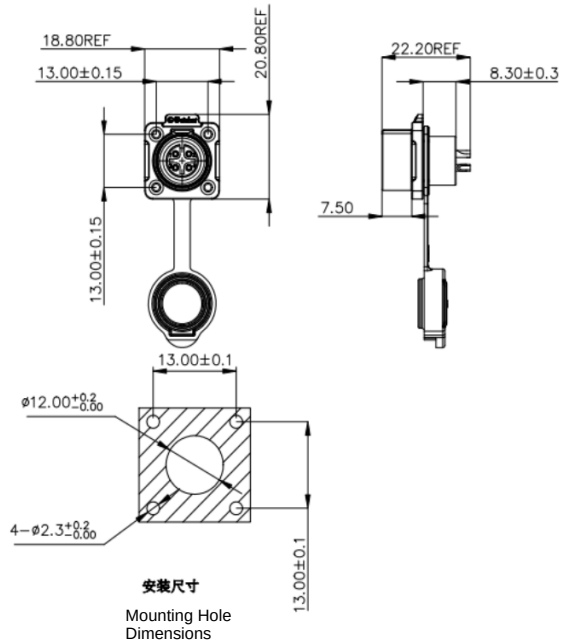
● EW- LP12L-#P



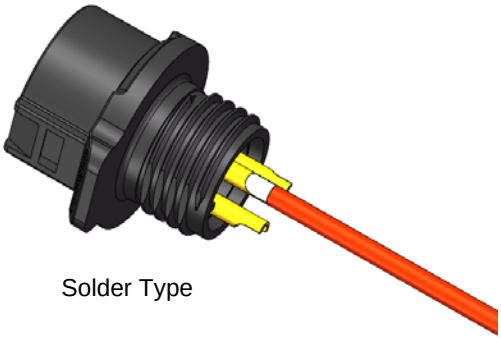
● EW- LP12L-#P



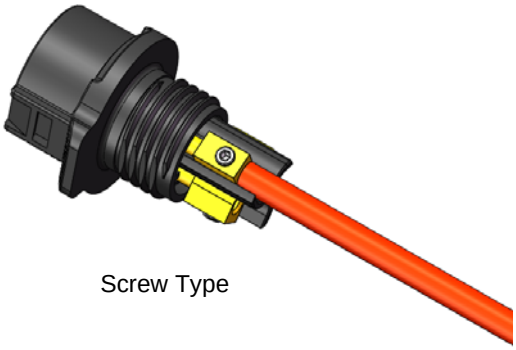
● EW- LP12P-#P



5 Product Performance



Solder Type



Screw Type

Part Number		EW-LP12-2P	EW-LP12-3P	EW-LP12-4P	EW-LP12-5P	EW-LP12-6P	EW-LP12-7P	EW-LP12-8P
Image								
		2 Cores	3 Cores	4 Cores	5 Cores	6 Cores	7 Cores	8 Cores
Wiring Method	Solder	√	√	√	√	√	√	√
	Screw Wiring	√	√	×	×	×	×	×
Con-tact	Solder	Φ1.0*2	Φ1.0*3	Φ1.0*4	Φ1.0*5	Φ1.0*6	Φ0.8*7	Φ0.8*8
	Screw Wiring	Φ1.0*2	Φ1.0*3	×	×	×	×	×
Wire Gauge		≤0.5 mm² 20AWG					≤ 0.34 mm² 22AWG	
Rated Current		5A					3A	
Operating Voltage		125V AC					100V AC	
Withstand Voltage		1500V AC					1000V AC	
Contact Resistance		< 5 mΩ						
Temperature Rise		≤ 45 K						
Insulation Resistance		≥500MΩ						
Mechanical Life		≥1900 Times						
Ambient Temperature		- 40～+ 85℃						
High-Temperature Aging		85 ℃ / 168 h						
Salt Spray Test		PH6.5-7.2,NaCl, 5% 48H						
IP Rating		IP68 1m / 2H						
(OD)		Φ5～Φ7mm						