EW-LP24 Data and Special Signal **P**roduct Specifications

1 Product Name：EW-LP24 Data Signal Waterproof Connector

EW-LP24P-USB	EW-LP24P-RJ45	EW-LP24P-HDMI	EW-LP24P-FIBER
EW-LP24L-USB	EW-LP24L-RJ45	EW-LP24L-HDMI	EW-LP24L-FIBER

EW-LP24S-USB
Male Plug
Wire length 600mm

EW-LP24S-RJ4
Male Plug

EW-LP24S-HDMI
Male Plug
Wire Length 1030mm

EW-LP24S-FIBE
Male Plug
Wire Length 1100mm

2 Material and Process

Part category	Material	Process
Contact	Copper Alloy	Gold-Plated
Housing	PBT/Zinc Alloy	Injection Moulding Die Casting
Insulation	PBT	Injection Moulding
Seal	Silicone Rubber	Solid-state moulding

3 Product Description

This product's technical performance complies with the specifications of the USB and HDMI associations as well as IEC standards. It features one key pluggable design, offering the advantages of secure locking and smooth plugging and unplugging, with more than 1900 repeatable mating cycles. The housing is made of imported PBT material, ensuring the product has stable electrical performance, as well as excellent physical and chemical properties such as heat resistance and corrosion resistance. Additionally, the conductive components are gold-plated for excellent conductivity, meeting the product's temperature rise requirements even in high-temperature environments.

Applicable Standards: Compliant with USB, HDMI association specifications, and IEC standards.
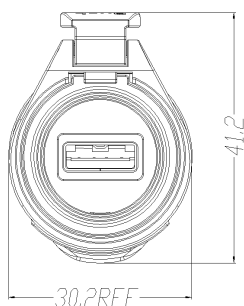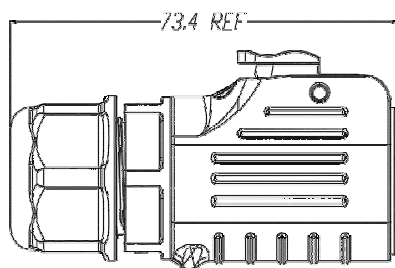
3.1 Product coding rules

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

夹线胶圈直径(0/2位数字)： Diameter of clamping ring (0/2 digit)

夹线胶圈或防水胶盖颜色： C：灰色 B：黑色 Colour of clamping ring or waterproof rubber cover: C:Grey B:Black

导电件形态(1位字母)： M：公针 F：母针 Form of conductive parts (1 digit): M: male pin F: female pin

中壳颜色：B：黑色 Y：黄色 L：蓝色 Middle shell colour: B: black Y: yellow L: blue

主体材质(1位数字)：0：锌合金 5：PBT Body material(1 digit): 0:Zinc alloy 5:PBT

接线方式： 1：锁线式 2：焊接式 4：压接式 Wiring: 1: screw wiring 2:Solder 4:Crimping

芯 数： 02：2芯 03：3芯 04：4芯 …… Number of cores: 02-2poles 03-3 poles 04-4 poles

接口端类： S：插头端 L：直通插座/面板插座 P：法兰插座 Connector Type: S:Plug end L:Straight through socket/ panel socket P:Flange socket

型号(2位数字)：12型/16型/20型/24型/28型…… Model (2 digits): 12 type / 16 type / 20 type / 24 type / 28 type...

产品款型： LP系列 Series: LP Series
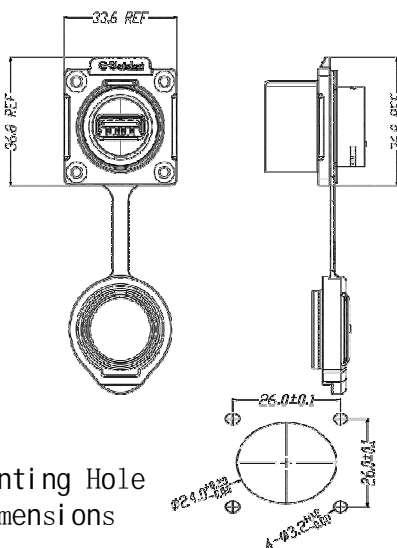
公司名称E-weichat简写 Company name E-weichat abbreviation

3.2 Installation Requirements

3.2.2 Product external dimensions and installation dimensions:
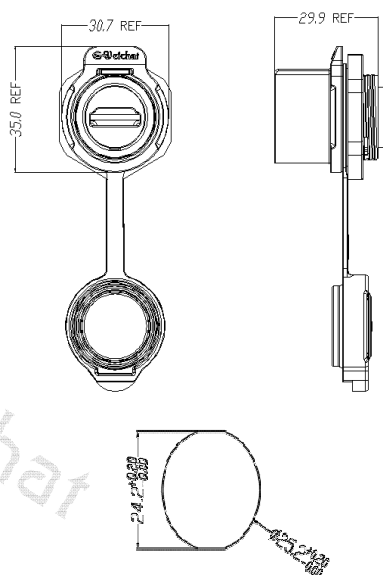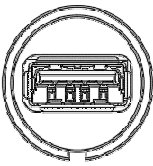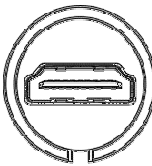
● EW-LP24S-####

● EW-LP24P-####
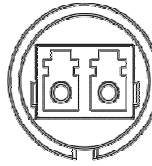
Mounting Hole Dimensions

● EW-LP24L-####

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4 Product properties

Part Number	EW-LP24-USB	EW-LP24-HDMI	EW-LP24-RJ45	EW-LP24-FIBER
Image				
Rated current	900mA	0.5A	1.5A	/
Operating voltage	5V	5V	125V	/
Insertion loss	/	/	/	≦0.35dB
Return loss	/	/	/	≥50dB
Transmission speed	5.0 Gb/s	/	10Gb/s 500MHz	/
Mechanical life span	≥1900 times			
Ambient temperature	-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）（connection status）			
(OD)	∅5.0mm～∅6.5mm(RJ45）、∅5.0mm～∅7.0mm（USB/HDMI）、Two-hole ∅1.5mm～∅2.0mm（FIBER）			