

## KRX12 Series Single Pin Connector Operation Instruction (Energy Storage)

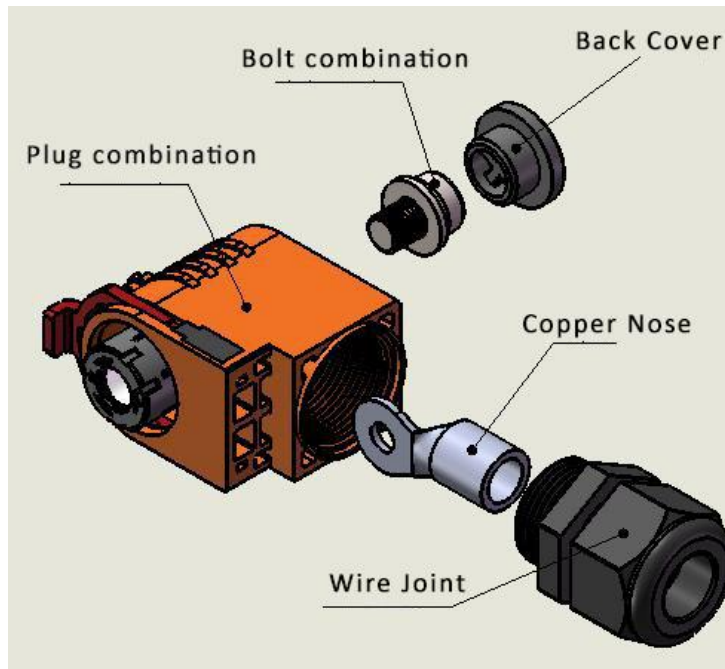


## Operation Instruction

### Plug Assembly

#### 1.1 Plug composition

The plug is composed of a plug combination, a bolt combination, a back cover, a copper nose, and a wire joint, as shown in Picture 1.1 below.



Picture 1.1

#### 1.2 Wire Stripping & Wire Crimp

##### 1.2.1 Wire Stripping

Wire stripping according to Picture 2



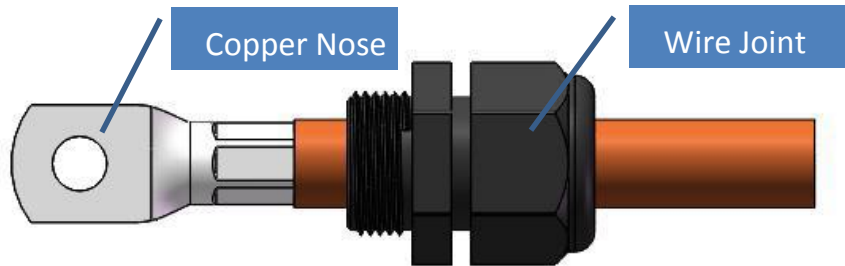
Picture 2

##### 1.2.2 Wire Crimp

Put the wire joint on the cable as shown in Picture 3, and then crimp the copper nose to the wire. See Table 1 for crimp strength requirements.

Table 1

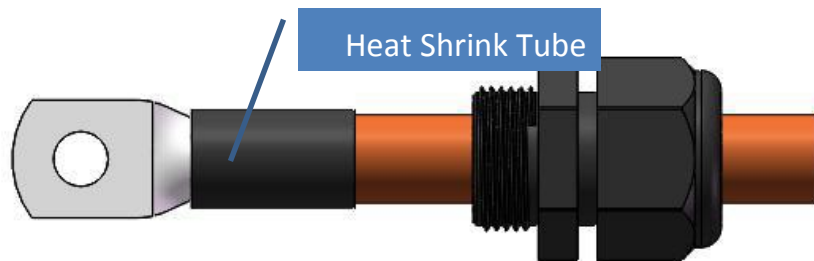
Wire Range(mm <sup>2</sup> )	Tensile strength
25	900
35	1000
50	1300
70	1750



Picture 3

### 1.2.3 Install Heat Shrink Tube And Heat Shrink

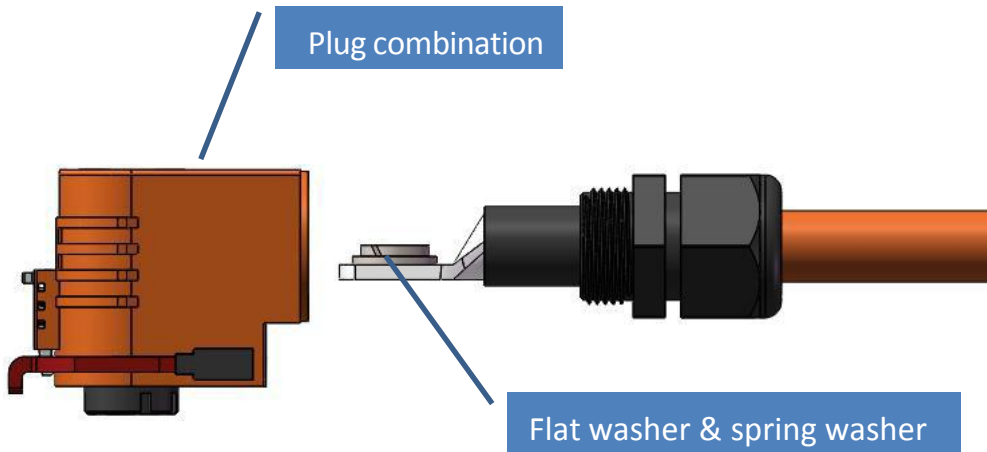
The heat-shrinkable tube (double-walled heat-shrinkable tube) is assembled to the position shown in FIG. 4 and heat shrunk.



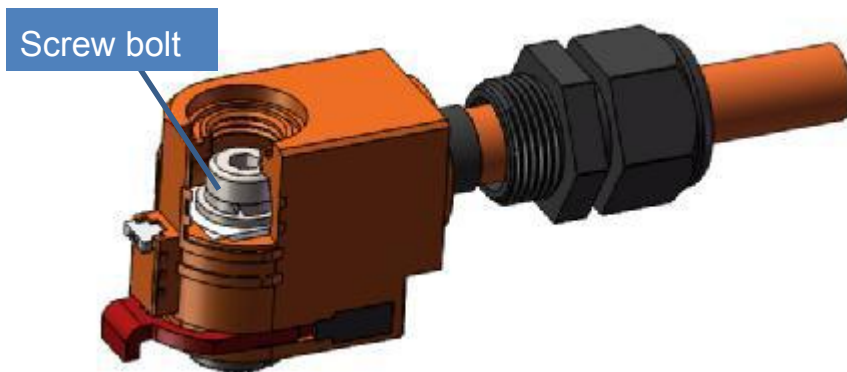
Picture 4

### 1.3.4 Copper Nose Installation

Place the M8 flat washer and the M8 spring washer on the copper nose of the crimped cable, and then insert it into the plug assembly from the hole at the end of the plug assembly. The copper nose is installed in the direction shown in Picture 5a, and then use the M8 bolt to place the spring washer, Flat washer, copper nose and jack are connected together, as shown in Picture 5b, M8 bolts are screwed with S = 5 hex wrench.



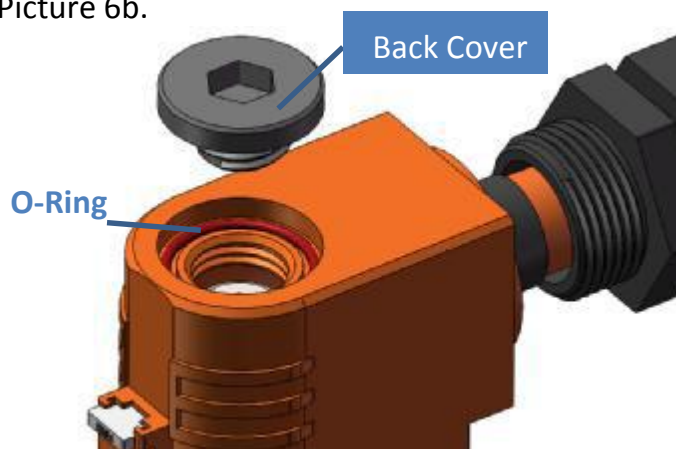
Picture 5a



Picture 5

### 1.3.5 Back Cover Assembly

Insert the O-ring into the annular groove of the plug combination shown in Picture 6a, and then screw the back cover to the plug combination with a S = 10 hex wrench. When screwing, the hex wrench should firmly press the back cover without slipping. This is shown in Picture 6b.



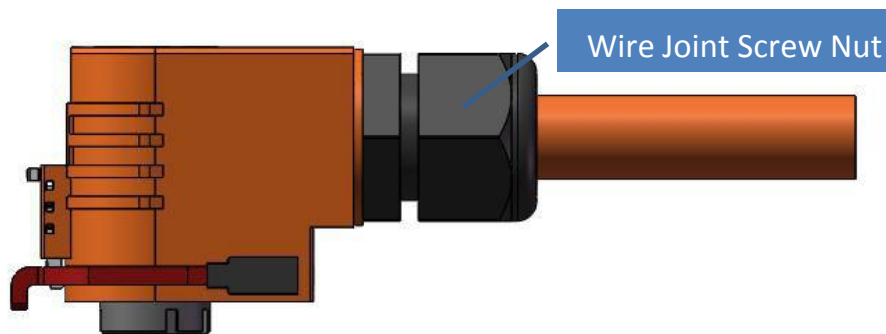
Picture 6a



Picture 6b

### 1.3.6 Wire Joint Assembly

Screw the wire joint into the plug combination, and then tighten the nut on the wire joint, as shown in Picture 7.



Picture 7

### Test

Test connector should meet below requirement

Insulation Resistance: 500MΩ

Withstand Voltage: 3000V DC

### Receptacle Assembly

Test

Test connector should meet below requirement

Insulation Resistance: 500MΩ

Withstand Voltage: 3000V DC

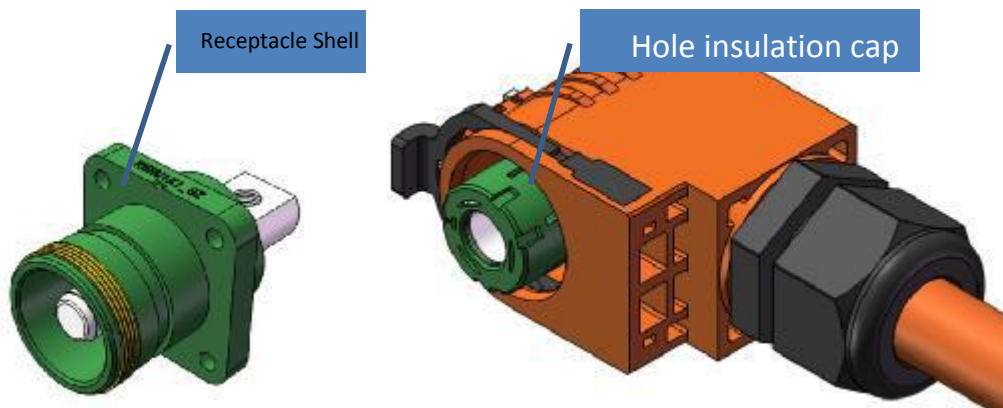
## Notice

### 2.1 Product Position

The product has five key positions of X, Y, U, V, and W. The colors of the corresponding receptacle shell and the hole insulation cap are five colors of orange, black, yellow, green, and red. The receptacle shell and plug of the same key position Hole insulation caps are the same color.

The plugs and receptacle between different key positions cannot be connected normally, so you should confirm whether the plugs and receptacle to be inserted are the same key position before plugging. Can be distinguished according to the color of the receptacle shell and the hole insulation cap.

Picture 8 and Picture 9 are V position receptacle and plug.

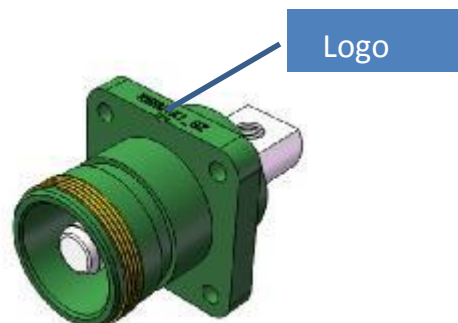


Picture8 Receptacle (V position)

Picture 9 Plug (V position)

### 2.2 Receptacle Installation Direction

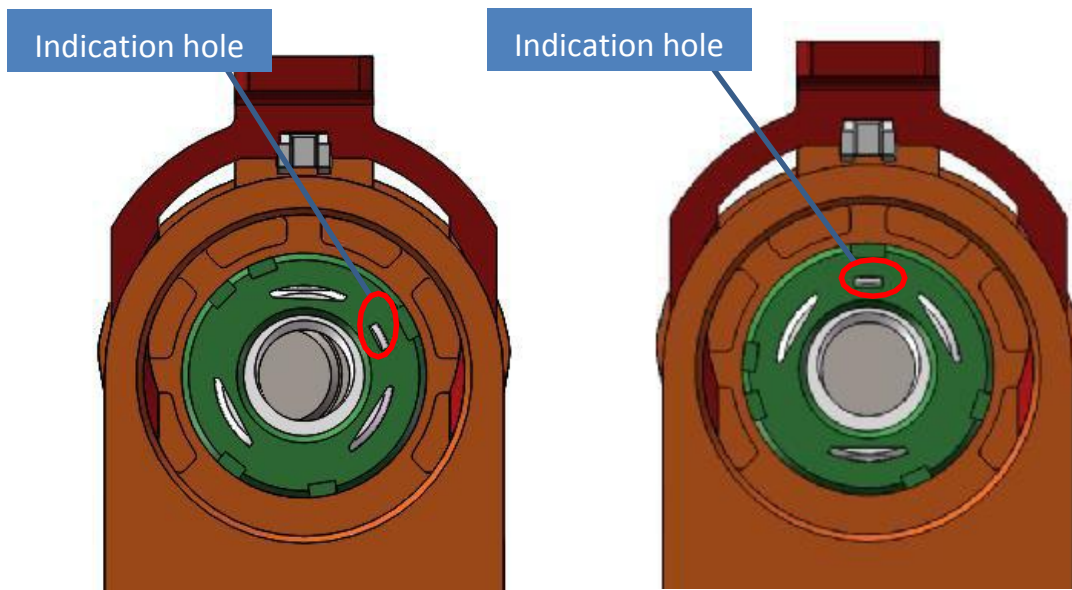
When installing the socket, the company logo should face up. See Picture 10.



Picture 10

#### 2.2.1 Plug & Receptacle Connections

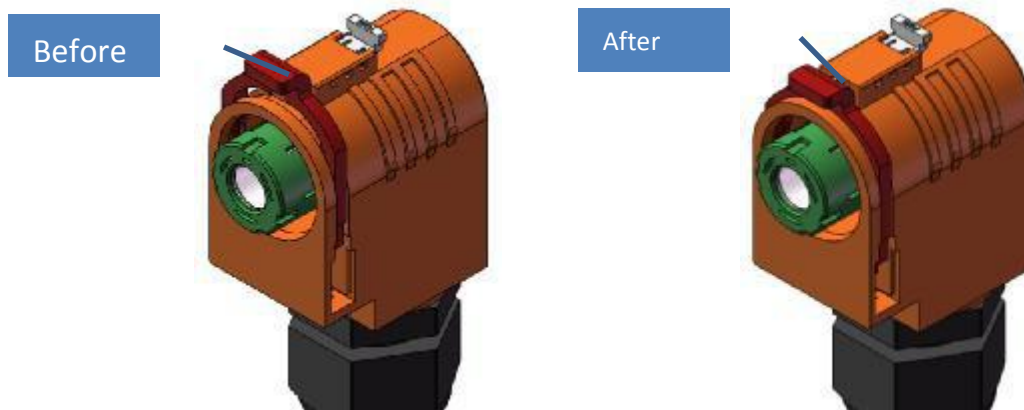
A. Before the plug is connected with the receptacle, the position of the indication hole of the insulating cap on the plug should be adjusted as shown in Picture 11b.



Picture 11a (Before Adjust)

Picture 11b (After Adjust)

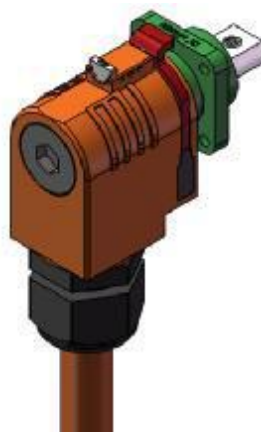
B. After that pressing down on the locking ring and keep. (See Picture 12a and 12b)



Picture 12a

Picture 12b

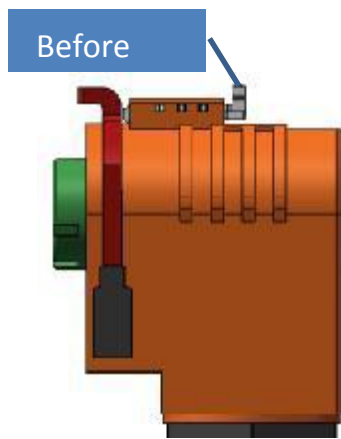
C. Then insert the plug into the receptacle, the schematic diagram after inserting is shown in Picture 13



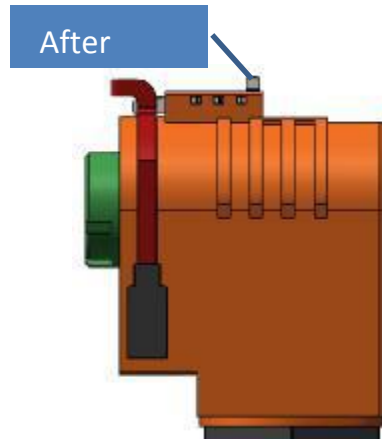
Picture 13

#### D. Lock card lock

Push the lock forward to the end, then finished.



Picture 14a

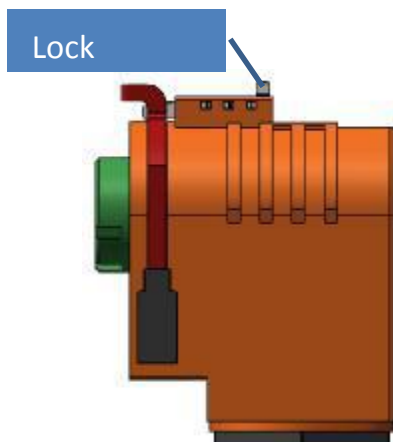


Picture 11b

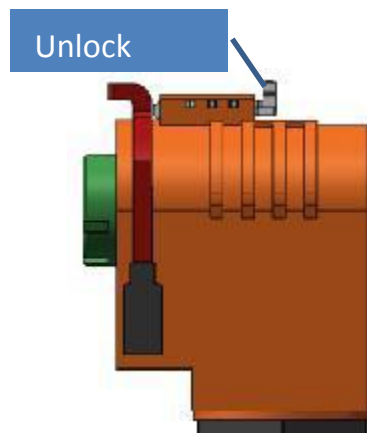
### 2.3 Plug & Receptacle separation

#### A. Card lock unlock

Pull back card lock, unlock the card lock. (Note: The force of the rear pull lock cannot be too large, otherwise it is easy to damage the lock or pull it out)



Picture 15a



Picture 15b

#### B. Press down on the lock ring

Hold the plug, press the locking ring to the end with the index finger and hold it

#### C. Plug Separation

Rotate the plug left and right, and pull the plug backward at the same time, the plug will come out of the socket to complete the separation of the plug and receptacle.



### Other Notice

1. When plug connect receptacle again, please according to [2.2.1](#)
2. The sealing ring on the receptacle is a wearing part, and the irregular insertion and removal of the plug and receptacle may damage the sealing ring.

Thank you to read this documents. During use progress, any question please feel free to contact us as below:

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