

# MHF® 4L Connector

Part No. Plug: 20565-001R-\*\* Receptacle: 20449-001E, 20449-001E-\*\*, 20579-001E-\*\*

## Instruction Manual

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Rev.	ECN	Date	Prepared by	Checked by	Approved by

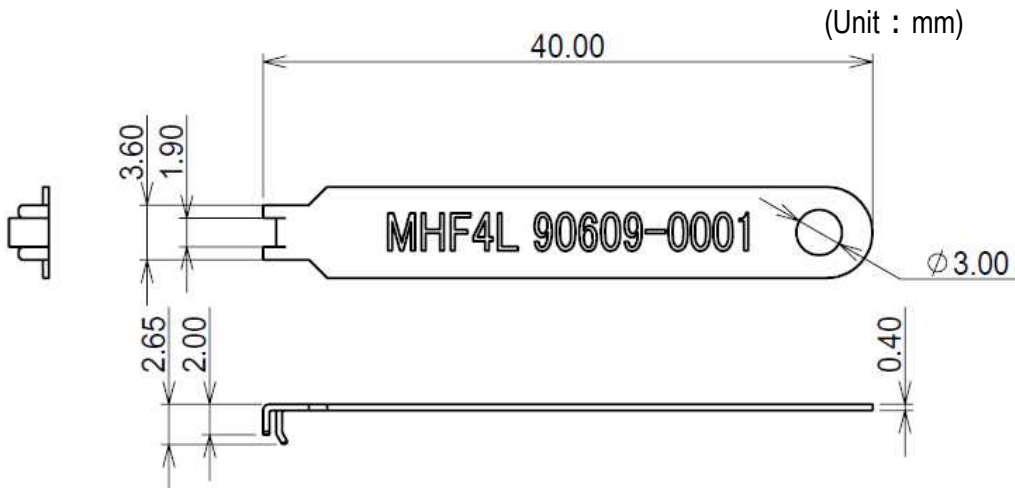
This manual is to explain the insertion and withdrawal methods and important points in handling of MHF 4L connector plug with cable for the purpose of proper use.

**【Connector Part Number】**

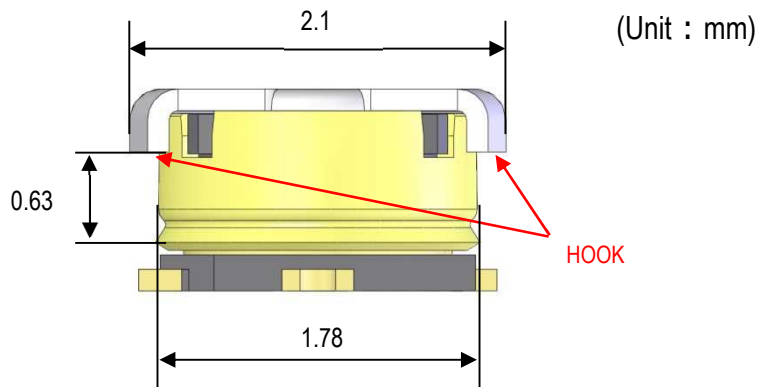
MHF 4L Plug	20565-001R-**
MHF 4 Receptacle	20449-001E, 20449-001E-**
MHF 4L Receptacle	20579-001E-**

**【Pushing & Pulling JIG】**

To avoid excessive stress to cable connection points, it is recommended to use special jig as show in Fig. 1. The cable connector has a design feature to hook this "Pushing & Pulling JIG". (See Fig.2)



(Fig. 1) Recommendation: Pushing & Pulling JIG



(Fig. 2) PLUG connector design feature to hook pull jig

## 【CONNECTOR INSERTION MANUAL】

### 1. In case of mating by hand

#### ① How to hold a cable connector

Hold the both ends of cable connector as shown in Fig. 3.

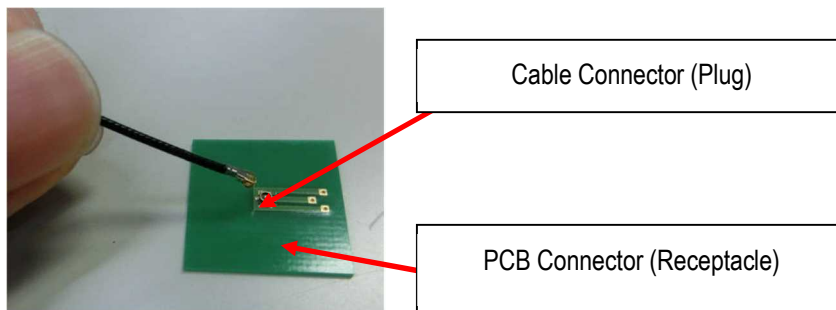


Fig. 3

#### ② Which direction to mate

Set connectors of the board side and of the cable side as shown in Fig. 4.

Please check they are set firmly by moving back and forth slightly.

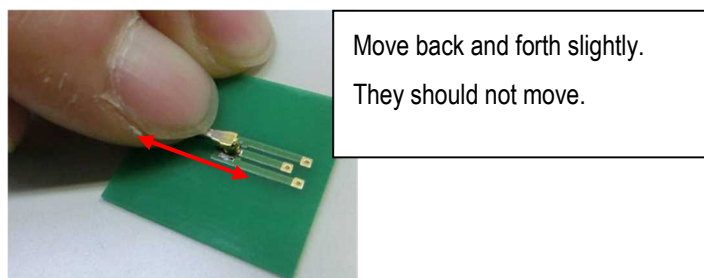


Fig. 4

#### ③ How to mate

Push cable connector at its center location vertically as shown in Fig. 5.

When click sound can be heard, "the connector mating action is complete".

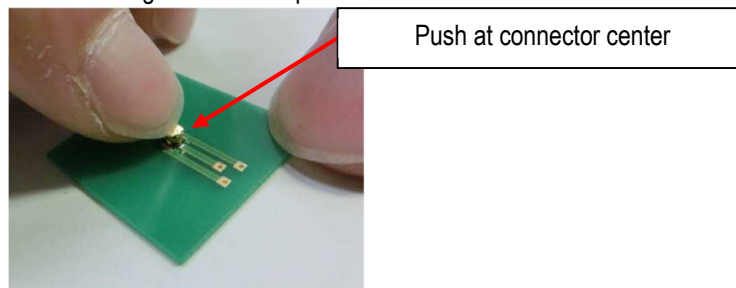


Fig.5

## 2. In case of mating by Pushing & Pulling JIG

- ① Slide the "Pushing & Pulling JIG" from the direction of drawing out of a cable and attach to the cable connector. (See Fig. 6-a)
- ② The jig must be moved until it reaches a stopper just as it hold the cable connector. (See Fig. 6-b)
- ③ Push to the jig vertically to the PCB surface (PCB Connector). (See Fig. 6-c)

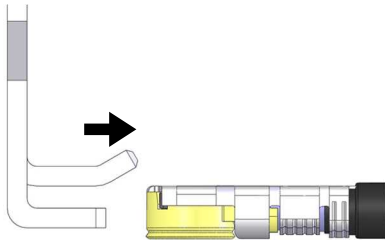


Fig. 6-a

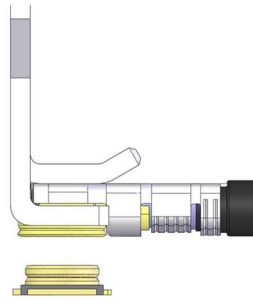


Fig. 6-b

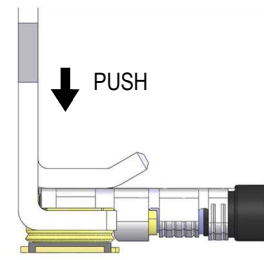


Fig. 6-c

### CAUTION

Please make sure to set the cable side connector parallel to the board.

If you mate in not parallel condition as shown in Fig. 8, connector will be damaged.

Correct connector mating  
Parallel <Allowed>

Wrong connector mating  
Not parallel <Prohibited>

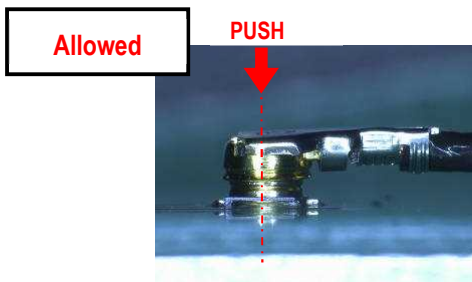


Fig. 7

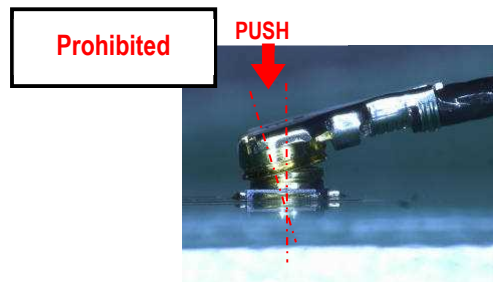
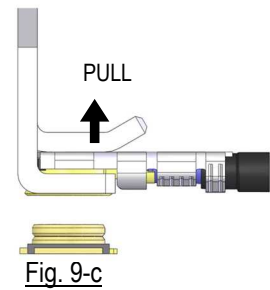
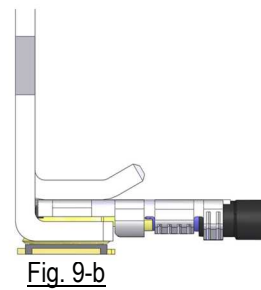
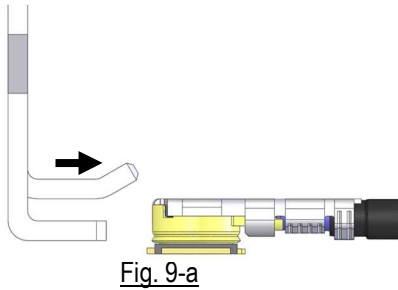


Fig. 8

## 【How to withdraw cable connector】

- ① Slide the "Pushing & Pulling JIG" from the direction of drawing out of a cable and attach to the cable connector. (See Fig. 9-a)
- ② The jig must be moved until it reaches a stopper just as it holds the cable connector. (See Fig. 9-b)
- ③ Lift up the jig vertically to the PCB surface. (See Fig. 9-c)



### CAUTION

"Pushing & Pulling JIG" must be lifted up vertically to PCB surface. (See Fig. 10)

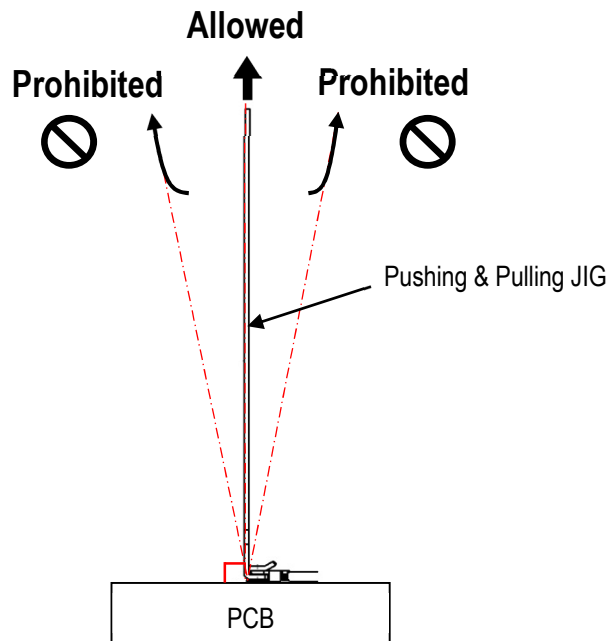


Fig. 10

## 【CAUTION IN CABLE CONNECTOR HANDLING】

In the case of Fig. 11, it has possibility to damage to the housing and come off from receptacle.

Especially when operators give continuous force to the direction (red arrow), the tendency become higher.

So please take care of handling of harness.

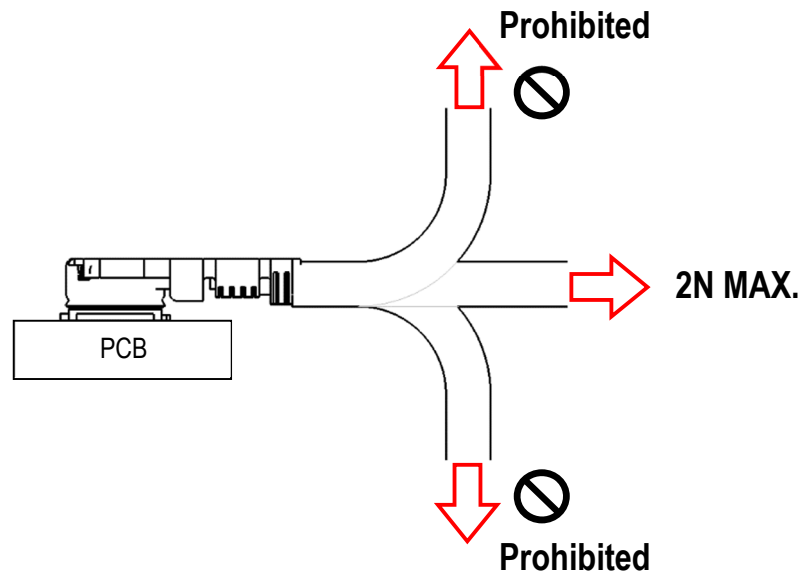


Fig.11

## 【CAUTION IN REEL HANDLING】

In the case of Fig. 12, it has possibility to deform and damage to the connector, when operators give too much force. So please take care of handling of reel.

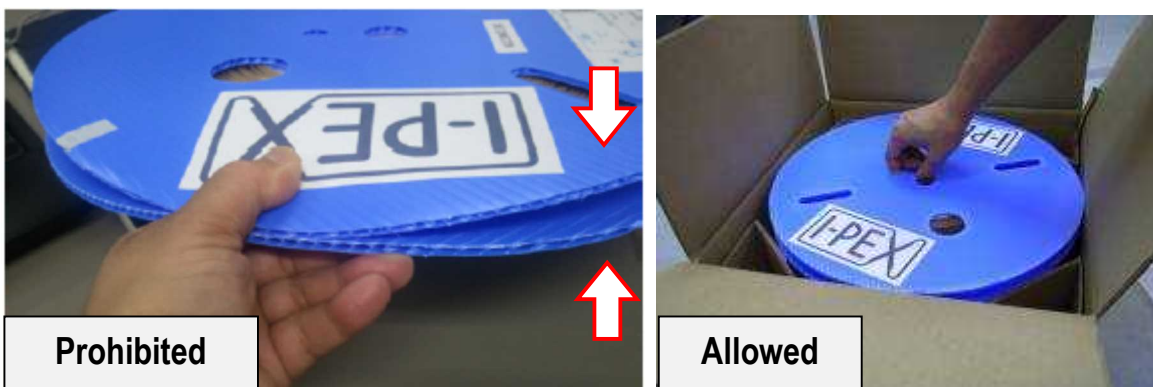


Fig.12

If the product is pulled out from the reel tangled with the mid-layer paper like Fig.13, it may cause damage or deformation of connector. Please pull out the product and the paper in separate direction.

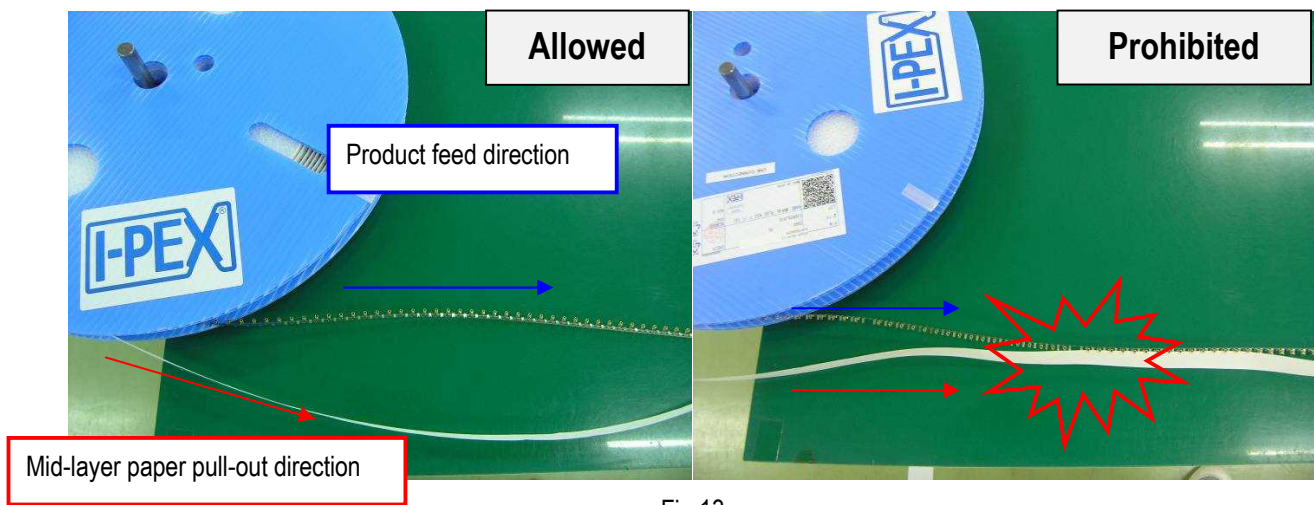


Fig.13