



Title of Document:	<b>HANDLING MANUAL</b>	Issue No. CHM-1-2533	Rev. 2
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Title subject:	J-FAT-S-A Connector Receptacle	Revision date: April 12, 2023	

This manual describes points of handling about J-FAT-S-A connector receptacle.

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## 1. Model Number

Part name	Type	Model No.
Receptacle	Normal type	*JFAT-SA( )GGKK-A
	Reverse type	*JFAT-SB( )GGKS-A
Open tool		J-FAT-OT (N)

Note<sub>1</sub>: 2-digit figures in an asterisk denote the circuit number.

Note<sub>2</sub>: A letter in ( ) denotes keying number. e.g. Receptacle with keying X: \*JFAT-SAXGGKK-A

## Reference: Applicable parts

Part name	Type	Model No.
JFA Connector J320S series side entry type header	Normal type	S*B-F32SK-GG( )R (LF)(AU)
	Reverse type	SR*B-F32SK-GG( )R (LF)(AU)
JFA Connector J320M series side entry type header		S*B -F32MK-GG( )( )R (LF)(AU)

Note<sub>3</sub>: 2-digit figures in an asterisk denote the circuit number.

Note<sub>4</sub>: A letter in ( ) denotes keying number.

e.g. Side entry type header with keying X: S\*B-F32SK-GGXR (LF)(AU)

Note<sub>5</sub>: Identification marking "(LF)(AU)" denotes lead-free.  
(LF)(AU) shall be displayed on the product label.

Note<sub>6</sub>: The description of series name is as follows:

J320S: Single (one row) type

J320M: Double (two rows) type

## 2. Applicable Wire

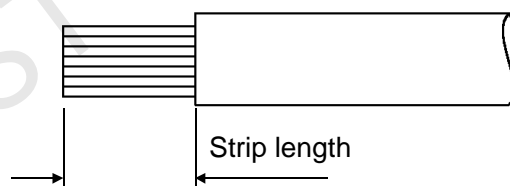
Conductor size	AWG #18 ~ AWG#14
Insulation O. D.	φ 2.1 ~ φ 3.9 mm
Conductor	Annealed copper stranded wire with tin plating

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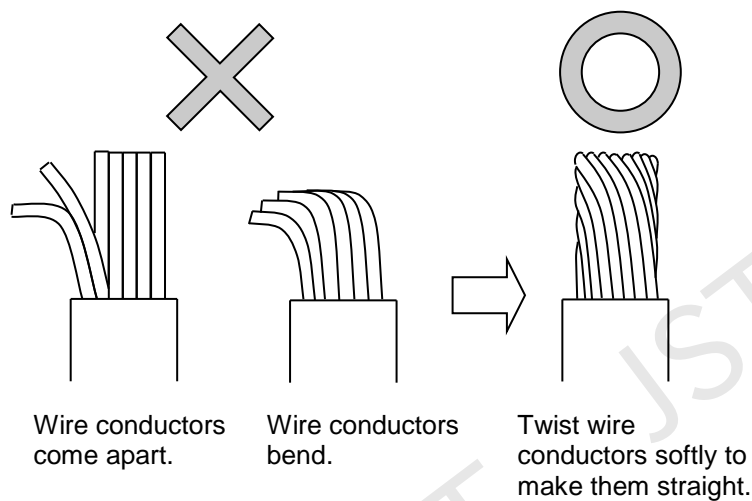
### 3. Wire Connection

#### 3-1 Wire strip

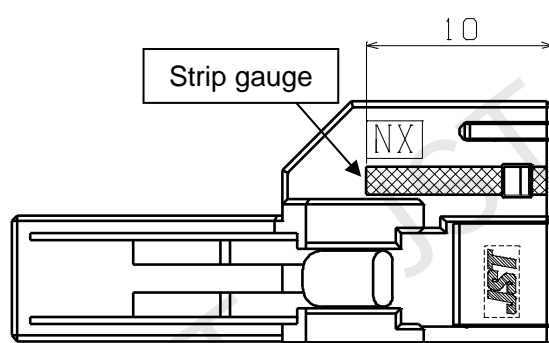
When wires are stripped, do not damage or cut off the wire conductors.  
As the wire strip length differs depending on wire type and crimping method, decide the best wire strip length considering the processing condition.



Reference value of wire strip length: 10 mm


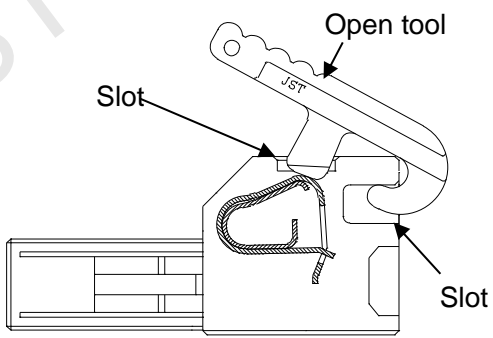
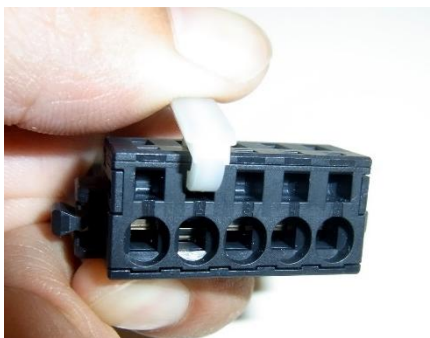
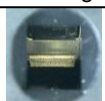
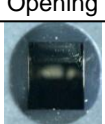
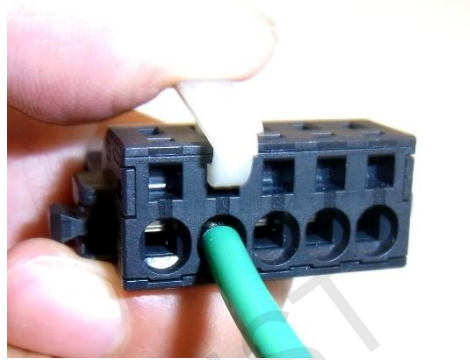
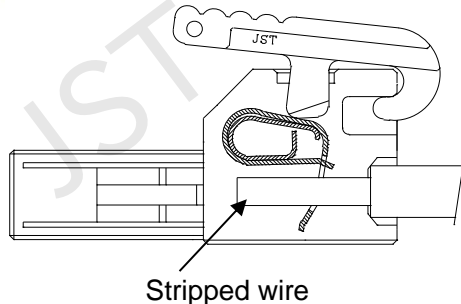
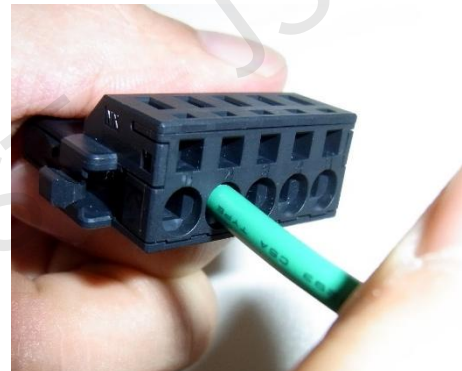


\* Adjust the length by strip gauge in stripping.



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## 3-2 Wire connection

Operation item		
①	Insert an open tool in the connector from the operation slot.	 
②	Push down the open tool to open the spring.	 <div style="display: flex; flex-direction: column; align-items: center;"> <div>Closing</div>  <div>Opening</div>  </div>
③	Keeping the open tool push down, insert the stripped wire straight from the wire insertion hole. Then, pay attention to insert all wire conductors in the spring opening part.	 
④	Let the open tool go, and the wire is locked. Check that wire connection is firm by pulling the wires softly. Check that the spring does not bite the wire insulation. After wire connection, remove the open tool.	

Note<sub>7</sub>: When the inserted wires are extracted from the receptacle, push down the spring like the operation ③.

Note<sub>8</sub>: When the wires are reused, check that the wire conductors are free from abnormalities, such as breakage and damage.

Note<sub>9</sub>: Do not connect wires when applying current.

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#### 4. Mating and Unmating Connector

##### 4-1 Mating the connector

Hold the receptacle housing with secure and insert the connector into the header straight on the same axis. Insert it up to the proper position, and you can feel a sense of clicking. Be sure to check that the connector is locked at the both sides.

##### 4-2 Unmating the connector

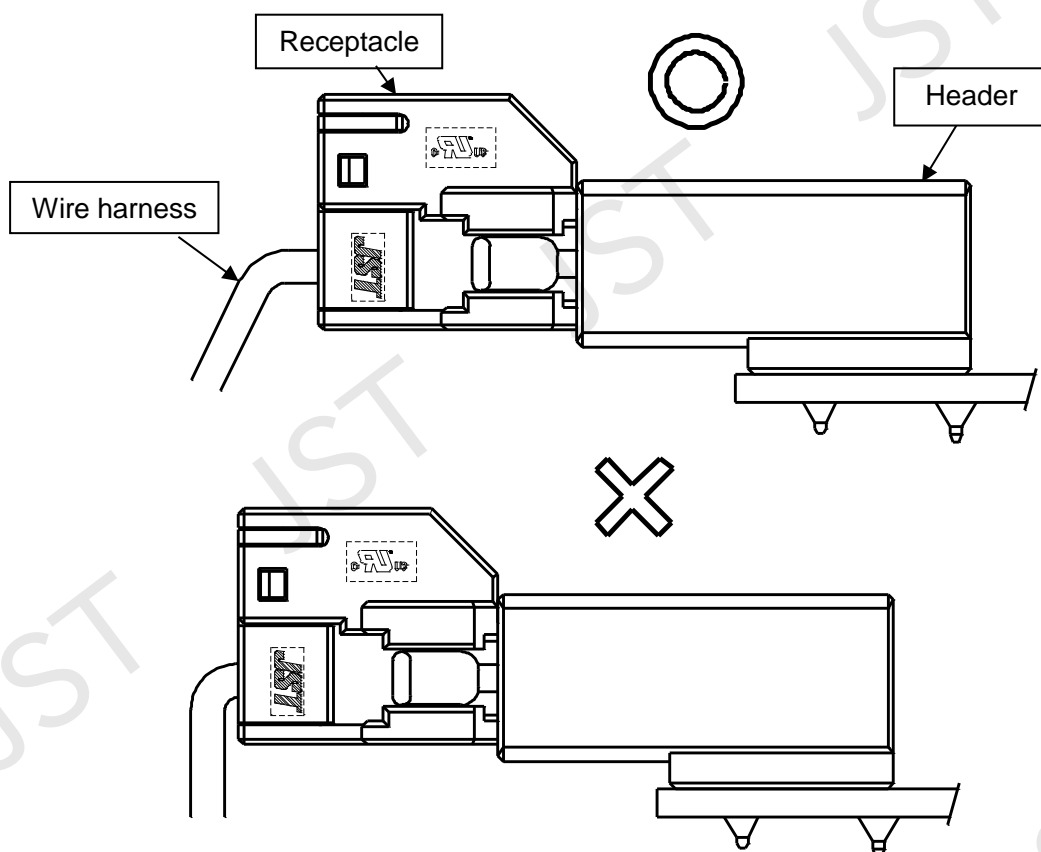
Hold the receptacle housing with secure and unmate the connector with unlocked on the mating axis.

##### 4-3 Wire handling

This J-FAT-S-A series connector is secure locking type. Depending on the handling direction and the tensile strength of the wire harness after mating, breakage of the connector itself, such as the solder tail part, the locking part and the connection part, or troubles, such as breakage of the PC board for mounting the connector, may appear.

To prevent these troubles in advance and bring the connector's performance out fully, please take the following consideration in handling the wire harness:

- Do not apply to the connector an external load other than tension and a load due to natural wire handling.
- Make the wires slack moderately so that the mating and unmating operation of the connector can be conducted smoothly and do the operation on the mating axis,
- In handling wires, do not apply other than an external load of wire buckling level to the connector by keeping enough wire length or fixing wires.



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## 5. Handling Precautions

- ① Store the connector in a place where temperature is 5°C ~ 35°C and humidity is 45% ~ 85%.  
Keep them free from direct sunshine, damp and dust.
- ② Careful operation is required for the storage and the transportation of the connector and the harness in a stacking condition, because the housing may be deformed.  
The stacking allowance in the storage and the transportation are up to 5 stacks of the carton box for the receptacle, and store and transport the harness not to apply a load to the housing part as much as possible.
- ③ Do not spray fumy insecticide in the place where the connector and the harnessed product are stored, or the harness operation is conducted, because the metal part may rust.