



Title of Document:	HANDLING MANUAL	Issue No. CHM-1-2739	Rev. 0
Customer:	GENERAL	Issue date: February 16, 2021	
Title subject:	J-FAT-S-KT Connector	Revision date:	

This manual describes points of handling about J-FAT-S-KT series connector.

C O N T E N T S

	Page
1. Model Number	2
2. Storage	2
2-1 Connector storage.....	2
2-2 Storage of the crimped contacts	2
3. Applicable Wire.....	2
4. Wire Connection	3
4-1 Wire stripping	3
4-2 Wire connection.....	4
5. Mating and Unmating Connector.....	5
5-1 Mating the connector.....	5
5-2 Unmating the connector	5
5-3 Wire handling	5
6. Handling Precautions	5

Prepared by: <i>K. Ikeda</i>	Checked by: <i>T. Sawano</i>	Reviewed by: <i>Y. Yatabe</i>	Approved by: <i>T. Imazeki</i>
---------------------------------	---------------------------------	----------------------------------	-----------------------------------

JST	Title subject: J-FAT-S-KT Connector	No. CHM-1-2739
------------	-------------------------------------	----------------

1. Model Number

Part name	Type	Model No.
Receptacle	Normal	*JFAT-SA()GDK-KT10
Header	Side	SC*B-JTSKT10SK-GE()KR
Open tool		J-FAT-OT (N)
		J-FAT-OT-K
		J-FAT-OT-EXL

Note₁: 2-digit figures in an asterisk denote the circuit number.

Note₂: A letter in () denotes keying.

2. Storage

2-1 Connector storage

Recommended storage condition: Temperature: 5 – 35 °C, Relative humidity 60 % or less
(Under packaging like the state of JST shipment)

Keep off direct sunlight, places exposing to such corrosive gas as industrial gas (generate from a stove and whatnot) and ammonia gas (generate from a toilet and whatnot), dusty place and condensation.

Note that the resin molding part may break due to transportation and handling, such as processing and mating, under dry or low temperature condition.

After unpacking, return the products in the original package to store.

2-2 Storage of the crimped contacts

Not leaving the crimped contact to stand in a place exposed to high humidity and direct sunshine, and not placing them directly on the ground, keep them in a clean storage room.

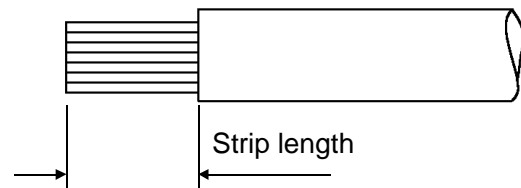
3. Applicable Wire

Item	Size
Conductor size	AWG #18 ~ AWG#12
Insulation O. D.	φ2.1 - φ4.1 mm
Conductor	Annealed copper stranded wire with tin plating

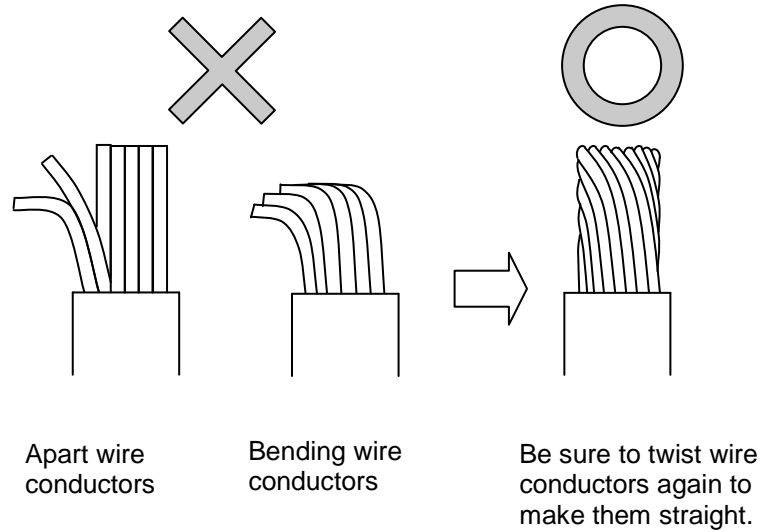
4. Wire Connection

4-1 Wire stripping

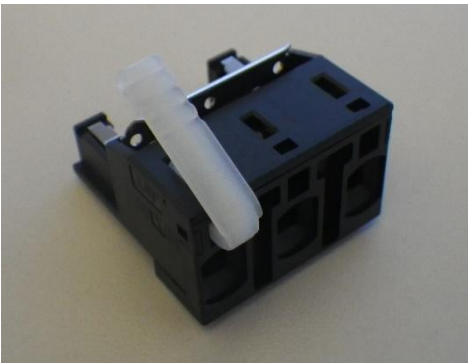
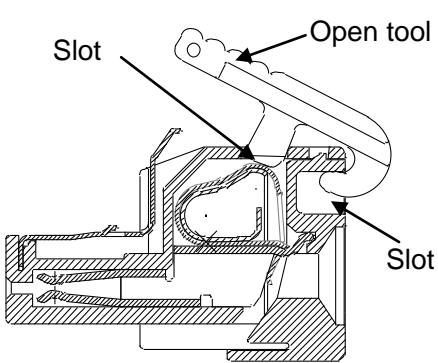
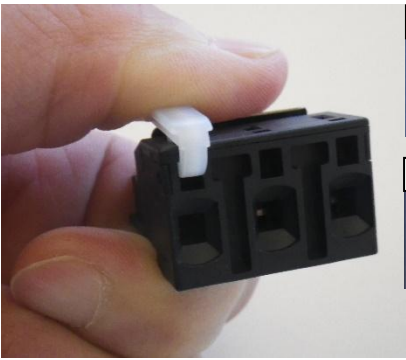
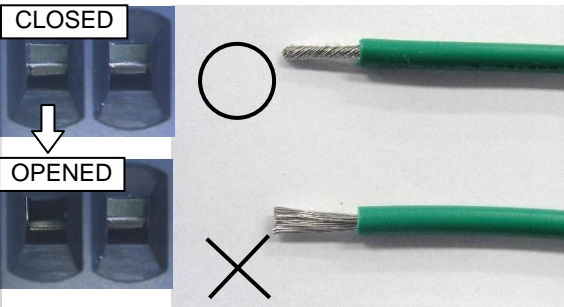
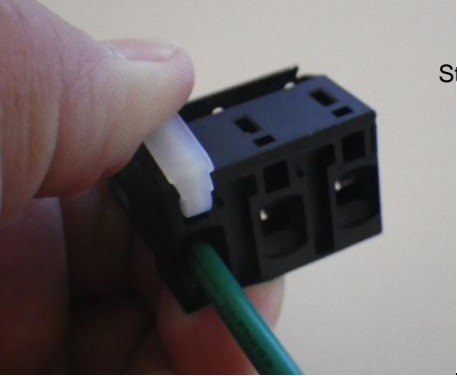
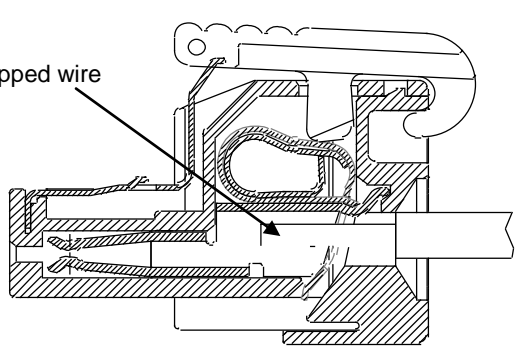
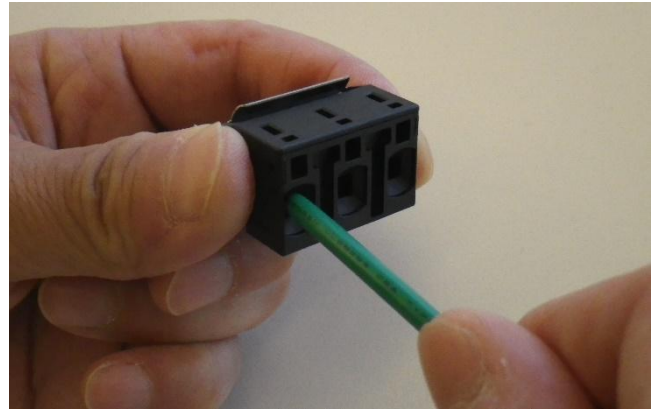
When wires are stripped, do not damage or cut off the wire conductors.
As the wire strip length differs depending on wire type and crimping method, decide the best wire strip length considering the processing condition.



Reference value of wire strip length:	AWG#18 - AWG#14	AWG#12
	9 mm	9.5mm



4-2 Wire connection

Operation item	
<p>① Insert an open tool in the connector from the operation slot to mount.</p>	 
<p>② Push down the open tool to open the spring.</p>	  <p>CLOSED</p> <p>OPENED</p> <p>Twist the wire front end as above.</p>
<p>③ With the open tool pushed down, insert a stripped wire in a straight from the wire insertion hole. Then, insert all wire conductors in the spring opening part with care.</p>	  <p>Stripped wire</p>
<p>④ Let the open tool go to lock the inserted wires. 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.</p>	
<p>⑤</p>	<p>Note₃: When the inserted wires are extracted from the receptacle, push down the spring like the operation ①.</p> <p>Note₄: When the wires are reused, check that the wire conductors are free from abnormalities, such as breakage and damage.</p> <p>Note₅: Do not connect wires when applying current.</p>

JST	Title subject: J-FAT-S-KT Connector	No. CHM-1-2739
------------	-------------------------------------	----------------

5. Mating and Unmating Connector

5-1 Mating the connector

Hold the receptacle housing with secure and straightly insert the connector into the header until clicking.

5-2 Unmating the connector

Hold the receptacle housing with secure and unmate the connector on the mating axis with the entire area of the lever top not to bend the lock lever.

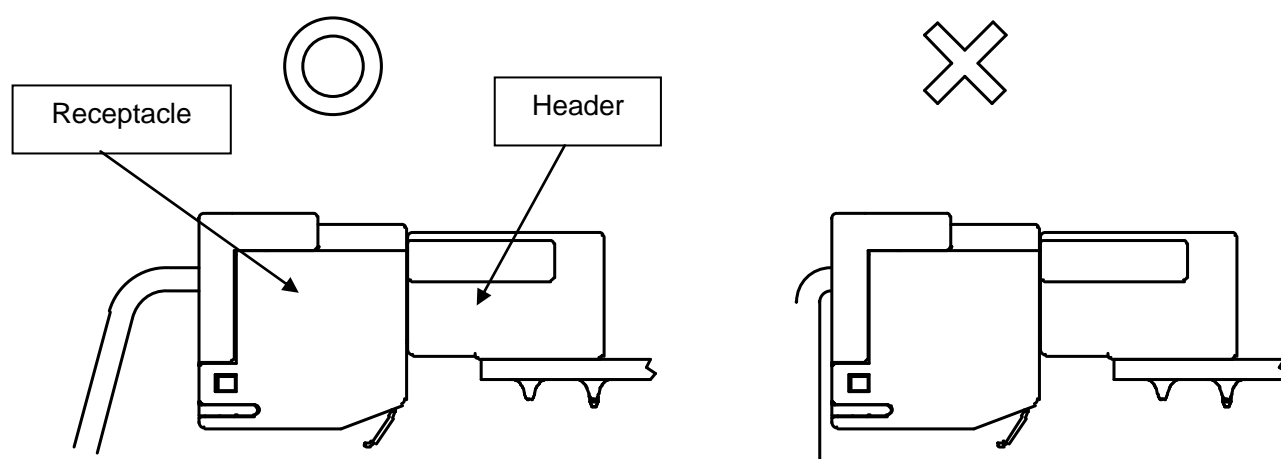
(In case of only pushing one side or the center of the lever, the lock is not released completely, and the receptacle sometimes cannot be unmated.)

5-3 Wire handling

This J-FAT-S-KT 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 PC boards 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.



6. Handling Precautions

- ① 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 connector, and store and transport the harness not to apply a load to the housing part as much as possible.
- ② 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.