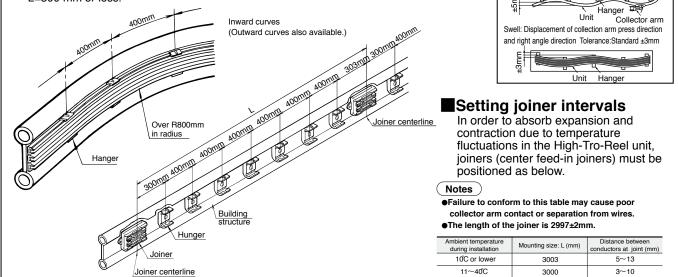
### **1** Setting joiner and hanger intervals

### Setting intervals for hangers

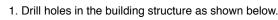
Hangers should be positioned at intervals of 400mm or less for straight sections and curved sections.

Should be set the intervals to hangers of the both end from joiner and center feed-in joiner L=300 mm or less.



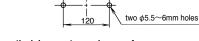
### **2** Joiner installation

Notes

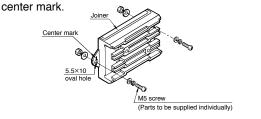


### Preparatory drilling on building structure

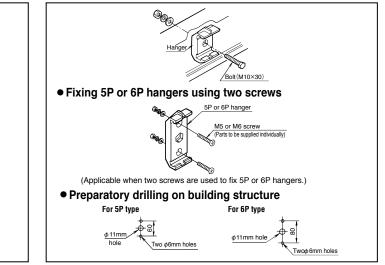
(for 3P, 4P, 5P and 6P)



When drilling holes, use the joiner center mark as a reference. 2. Screw the joiner to the building structure in line with the



### Hanger installation



Notes

Tolerance: Standard ±5mm

Should be installed the hangers and joiners as the

snaking/swell of Tro-Reel HS get within tolerance.

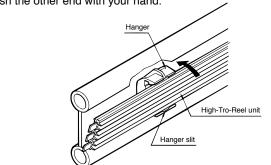
Snaking:Displacement of collector arm press direction

Construction materia

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### Mounting the High-Tro-Reel unit on a hanger

Insert one end of the High-Tro-Reel unit into the hanger and push the other end with your hand.

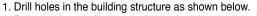


# Insert a flat tip screwdriver into the hanger slit. Then, lift the upper holder upward while pulling the lower holder down.

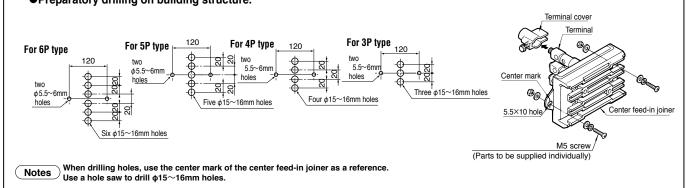
Unit:mm

### **5** High-Tro-Reel unit connection

sert the High-Tro-Reel unit into the joiner in the direction of e arrow. Notes When mounting the High-Tro-Reel unit, be careful to maintain the proper form and layout. To not be meandering ( up and down direction ±3mm or less) ailure to do so may cause poor collector arm contact or separation from wires.		Conductor Joiner
Ambient temperature during installation	Distance between conductors at joint (mm)	High-Tro-Reel unit
10°Cor lower 11~40°C	<u> </u>	
Notes For inward curves, position a joiner (or joint) at the center of the curve. (For outward curves, a joiner can be positioned on any part of the unit.)		Joiner High-Tro-Reel unit Joiner Joiner Joiner
Contor food in i	oiner installation	



2. Remove the terminal cover, insert the joiner into the building structure, line it up with the center mark, and screw it in. Preparatory drilling on building structure.

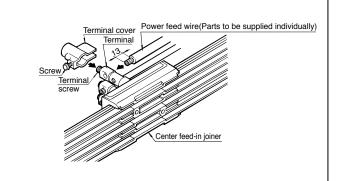


# **7** Supplying power to the High-Tro-Reel

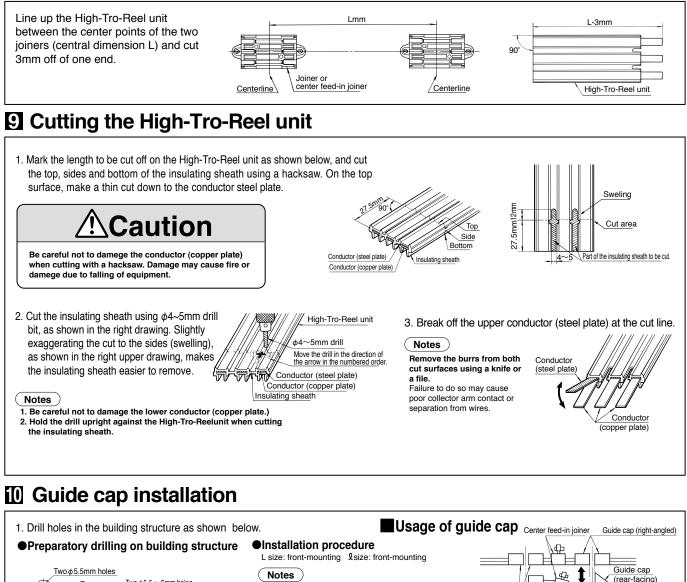
- 1. Remove 13mm of the sheath covering the power feed wire, insert the wire into the terminal, and screw it in securely with the terminal screw. Terminal screws must besecurely tightened. Failure to do so may cause fire. 2. Screw the terminal cover to the terminal.



1. Use 5.5 to 22mm<sup>2</sup> power feed wires. Be sure to crimp the inclvded crimp s sleeve before connecting the signal feed wire (0.75 to 2mm<sup>2</sup>) to the terminal. Failure to do so may cause fire.



## **8** Cutting the High-Tro-Reel unit



Be sure to use only the specified dimensions for each mounting part.

Number of poles (item)

3P (right-angled, front, rear-facing)

4P (right-angled, front, rear-facing)

5P (right-angled, front, rear-facing)

6P (right-angled, front, rear-facing)

Failure to do so may cause poor collector arm contact or separation from wires

L (mm)

73

93

113

133

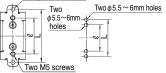
ያ(mm)

50

70

90

110



2. Screw a guide cap to the building structure and insert the High-Tro-Reel unit into the guide cap.

### (Notes)

Notes

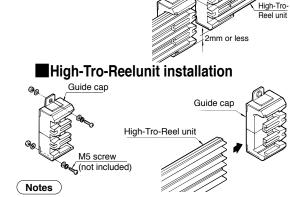
Use a tandem-type collector arm and set traveling speed at switching sections to 60m/min. or lower. Cutting the High-Tro-Reel unit and insulating sheath

 Line up the High-Tro-Reel unit between the center points of the joiner and the guide cap (central dimension"L") and cut 3mm off of one end.
Cut the insulating sheath terminal using a¢4~5mm electric drill.

Guide cap Joiner or center feed-in joiner

Failure to do so may cause poor collector arm contact.

Remove the burrs from both cut surfaces using a knife or a file



Guide cap

(front-facing)

10~20mm

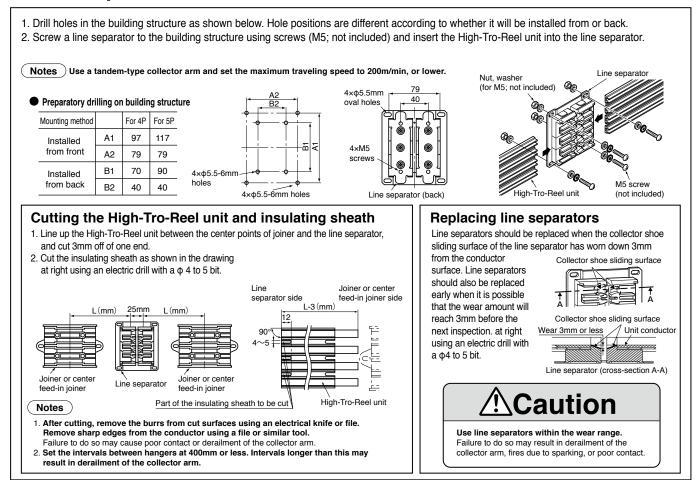
Guide car

Screws must be securely tightened. Failure to do so may cause damage due to falling of equipment.

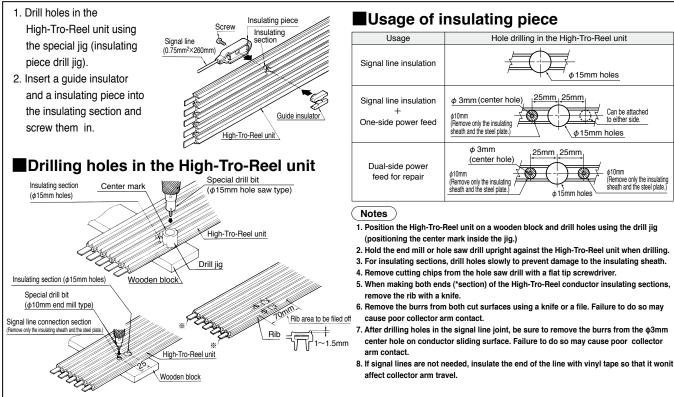
Guide cap

(right-angled)

Unit:mm

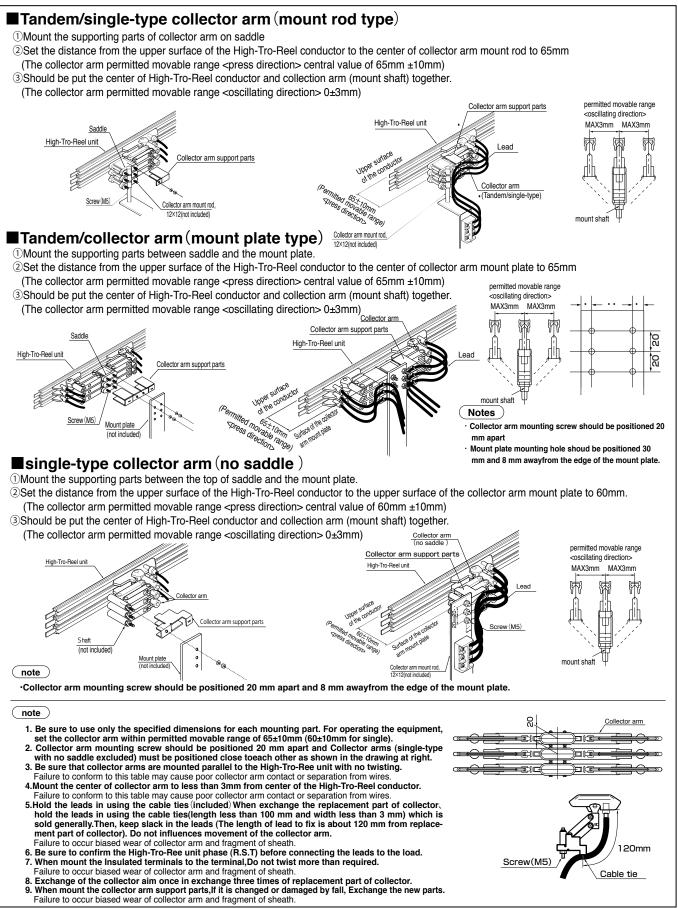


# D Insulating piece installation



### **[]** Line separator installation

### Collector arm installation



Unit:mm

### 14 Mounting a conductor cleaner

