

Installation Guide for Secondary Cable Connector

Installation Notice

All equipment should be installed by professionals.

Operation and maintenance should refer to IEC International Electrotechnical Commission Standard 61821-2003, AC 150 5340-26A "Maintenance of Airport Navigation Equipment" and FAA AC 150/5345-26 "L-823 Plug and Socket", safety precautions in the maintenance of airport navigation aid equipment of MH/T 6009-1999 "Cable, Plug and Socket of Navigation aid lighting". The equipment itself has safety and operation functions when it is designed, but the following rules must still be strictly obeyed.

1. All equipment must be powered off before installing the connector
2. Please check the application scope and supporting parameters of the connector before installation

Basic Parameters

Ordering No.	Secondary cable connector kit (A4) (plug): 971741 Secondary cable connector kit (A11) (socket): 971743
Cable	Cable outer diameter: Ø4.4~Ø5.2 Copper core specification: 4mm ²

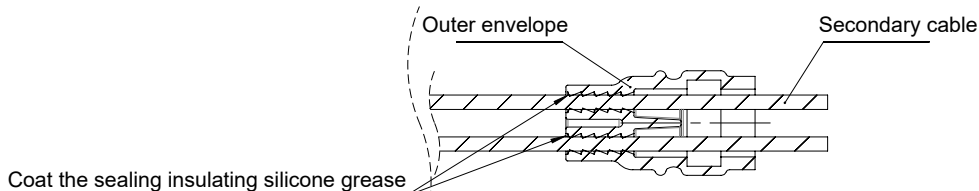
Packing List

Secondary cable connector kit (A4) (plug)		Secondary cable connector kit (A11) (socket)	
Name	Qty	Name	Qty
Secondary cable connector outer envelope A4	1	Secondary cable connector outer envelope A11	1
Pin combination (A4)	1	Ferrule combination (A11)	1
Sealing insulating silicone grease	1 bag	Sealing insulating silicone grease	1 bag
Wipe tissue	1	Wipe tissue	1
Product installation manual	1	Product installation manual	1

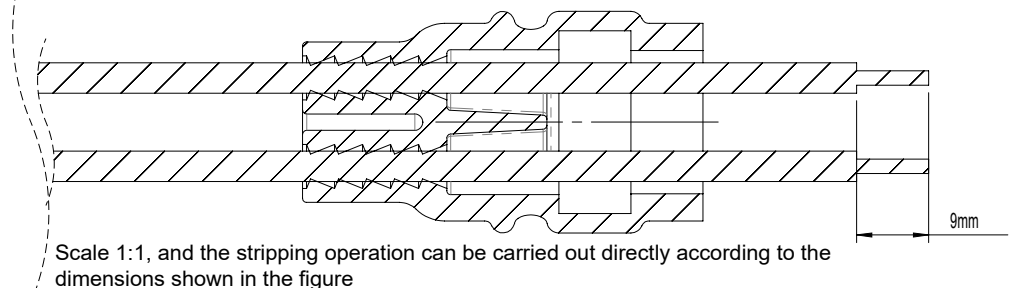
Step : Detailed Description

- 1 Use soluble detergent to clean the head part of the secondary cable that needs to be inserted into the connector, about 10 cm.
Note: Ensure the outer surface of this 10cm cable is not damaged, since the damage of the outer surface will affect the sealing performance of the plug / socket.

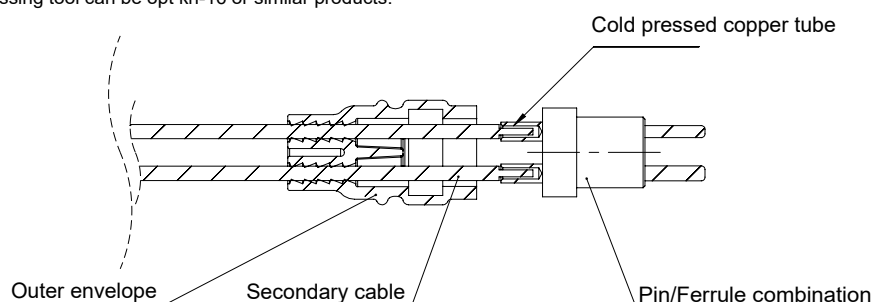
- 2 Pass the secondary cable through the outer envelope as shown in the figure below. When passing through the outer envelope, it is necessary to coat the sealing insulating silicone grease on the insertion port of the outer envelope and the outside of the secondary cable.



- 3 Use the stripping tool to peel off the outer skin of the secondary cable, about 9mm in length.



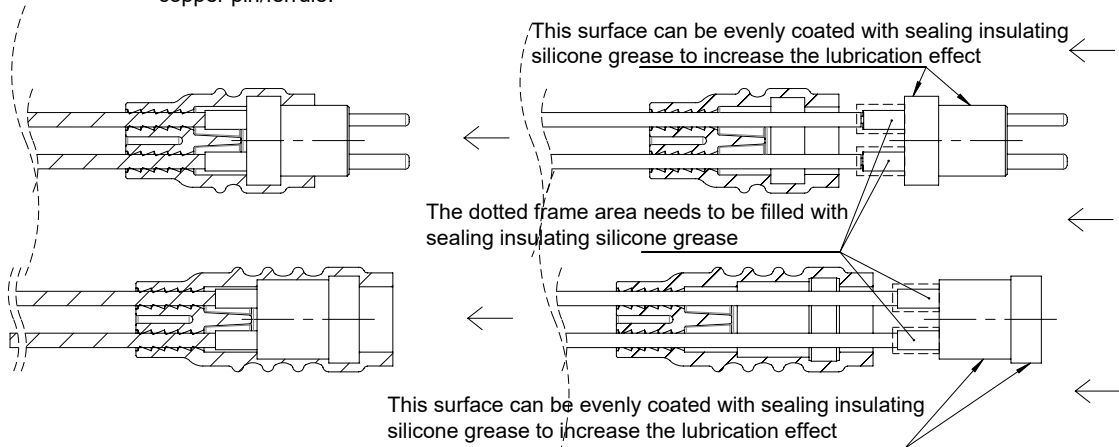
- 4 After tightening the copper core, insert it into the pin combination / ferrule combination, and use the cold pressing pliers to compress the copper core and the tail copper tube of the pin combination / ferrule combination.
Note: the pressing tool can be opt kh-16 or similar products.



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As shown in the figure below, coat sealing insulating silicone grease to the pressed copper tube area of pin/ferrule combination (the dotted frame area in the figure). Meanwhile, for better lubrication during installation, it is recommended to evenly coat the outer side of the pin/ferrule combination.

Note: When coating the sealing insulating silicone grease, it must not be applied to the copper pin/ferrule.



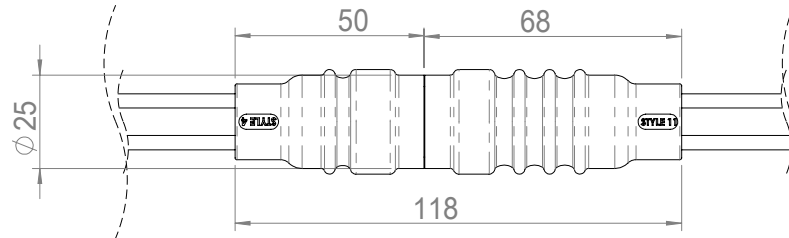
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Insert the pin/ferrule combination into the specified position of the outer envelope, as shown in the figure above.

7

After the installation is complete, clean up the sealing insulating silicone grease overflowing from the envelope and the contact of pin/ferrule combination.

Note: When cleaning, you need to be careful not to clean the silicone grease to the copper pin/ferrule.



1

Before connecting the secondary cable connector, it is necessary to clean the pin/ferrule, and no sealing insulating silicone grease or debris adhere to the pin/ferrule, otherwise it may cause damage to the cable connector, connecting equipment and even the entire circuit.

2

When the plug and the socket are inserted, the sealing structure of the plug and the socket will make the air unable to be eliminated in the cavity, causing the plug and the socket to not fit closely, especially when one or two connectors are coated with lubricating grease, You can use a Ø0.5 or Ø1 copper wire, place it in the socket, then insert the plug, and pull out the copper wire after it is combined.

3

In order to ensure the dryness and cleanliness of the connection between the plug and the ferrule, it is recommended to use electrical tape (Scotch 33+ premium PVC insulation tape or similar products, heat shrinkable tubing can also be used) to wrap the connection several times to completely wrap the connection.

Precautions for the connection of the secondary cable connector:

Precautions for the disconnection of the secondary cable connector:

When separating the plug and the socket, first remove the tape, and then separate the socket and the plug. When separating, do not pull the cable directly or bend the socket and the plug forcefully.

Statement:

The above products meet the requirements of ICAO Annex 14 Volume 1; FAA AC150/5345-26; MH-T 6009-1999.

If there are any defects in the above products, materials and workmanship, our company will unconditionally repair or replace them free of charge. If the damage is caused by incorrect operation, damaged runway maintenance equipment, defective civil engineering, or improper working environment, these conditions are considered as damage caused by improper use, and our company will not be liable for compensation.

Thanks for using AIRSAFE products. We sincerely hope that you can provide valuable comments and suggestions to make our products more perfect.

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