General:
- This instruction describes the installation and assembly procedures of Optec's IP68 LC Connector.

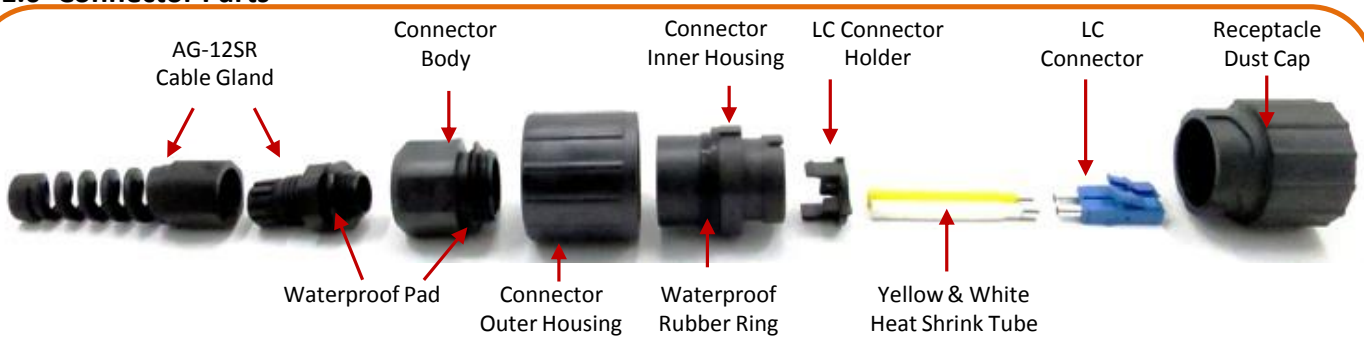
Note:
- DO NOT use these instructions to install Optec's IP68 MTP Connector.

Tools:
- Fiber stripper, miller clamp and crimping plier are required for the installation processes.

Precautions:
- Wear protective gear when stripping cable to protect yourself from sharp instrument.
- Always wear eye protective gear when handling optical fibers. Dispose of cuts or cleaved fibers properly to avoid skin or eyes damages.
- Never look into the connector end which may have a laser coupled to it. Laser light is not visible and may damage your eyes.

Purposes:
- To standardize the installation and assembly instructions, thus, avoid the possibility of confusion and mistakes.
- Gives the users more general instructions for the installation and assembly, and standardize the operating procedures.

1.0 Connector Parts



Receptacle must be fastened to or mounted on a flat surface.

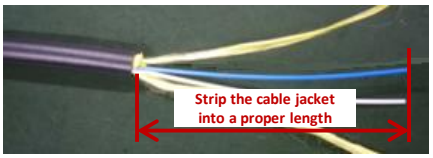
Square Flange

Hexagon Flange

2.0 Simple Assembly Procedures

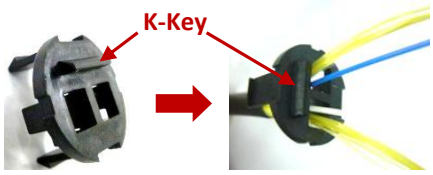
2.1) Remove the cap from AG-12SR cable gland.
*Cap can be disposed after the assembly procedures.

2.2) Slide the cable gland (with waterproof pad), connector body (with waterproof pad), connector outer and inner housing (with waterproof rubber ring) onto the cable in sequence.
*Arrows indicated the sequence and direction for sliding the components onto the cable.

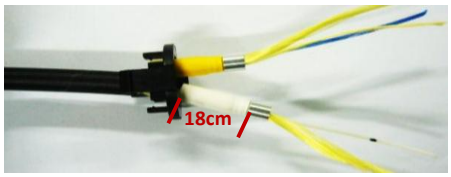


2.3) Strip the cable jacket according to the cable type. Choose an appropriate crimp ring for Kevlar, then evenly split the Kevlar into two groups. Select the corresponding stripping modules to measure and mark the specified length, then strip the cable jacket.
* For 2x900um cable: strip the cable jacket to 55mm.
* For 2x1.8mm cable: strip the cable jacket to 60mm.

2.0 Simple Assembly Procedures



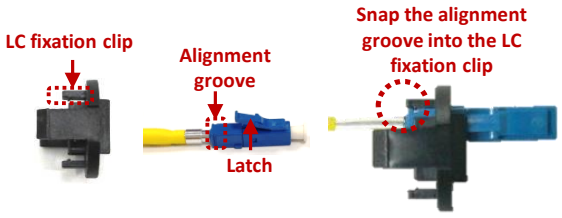
2.4) Based on the polarity requirement on technical drawing, and the K-Key on IP68 LC holder, slide the white and blue fibers (with Kevlar) separately onto the 2 holes.



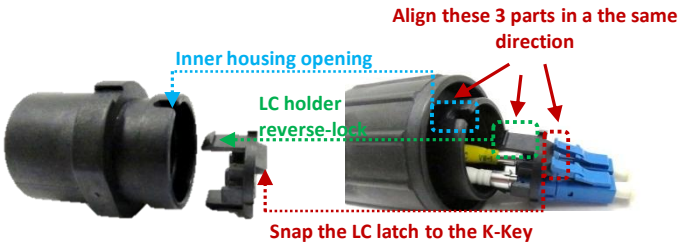
2.5) Cut the length of the yellow & white heat shrink tube to 18mm, insert the fiber and Kevlar into the heat shrink tube with corresponding colors.

2.6) According to the LC termination processes for jacket stripping, sliding the LC components onto the cable, crimping, curing, cutting the exceed aramid yarn, polishing, end-face inspection, interferometer inspection and testing.

2.7) Test the fiber signal integrity with fault locator to ensure the correct fiber alignment.



2.8) Push the connector into LC connector holder, snap the alignment groove into the LC fixation clip, snap into place.



2.9) Align the inner housing opening, LC holder revered-lock and the LC latch in a same direction, snap into place.

2.10) Screw the cable gland, connector body and connector inner housing tightly.

2.11) Test the connector performance after assembly, meanwhile, inspect and clean the endface one more time to ensure the connector performance.
*The IP68 LC Connector only mates with Optec's receptacle.

2.12) Screw the dust cap tightly, when hear the "click" sound, installation completed.

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