General:	• This instruction describes the installation and assembly procedures for Optec IP68 MTP Connector.

Note:	• DO NOT use this instruction manual to install Optec's IP68 LC Connector.
	• Tactical cable is suggested to use.
	• Suitable for terminating cables with outer diameter in 5.5mm (+/-0.5mm).
	    ➢ Heat Shrink Tube will be used if the cable outer diameter is less than 3.5mm.
	    ➢ Cable outer diameter over 6mm is not suitable to use.

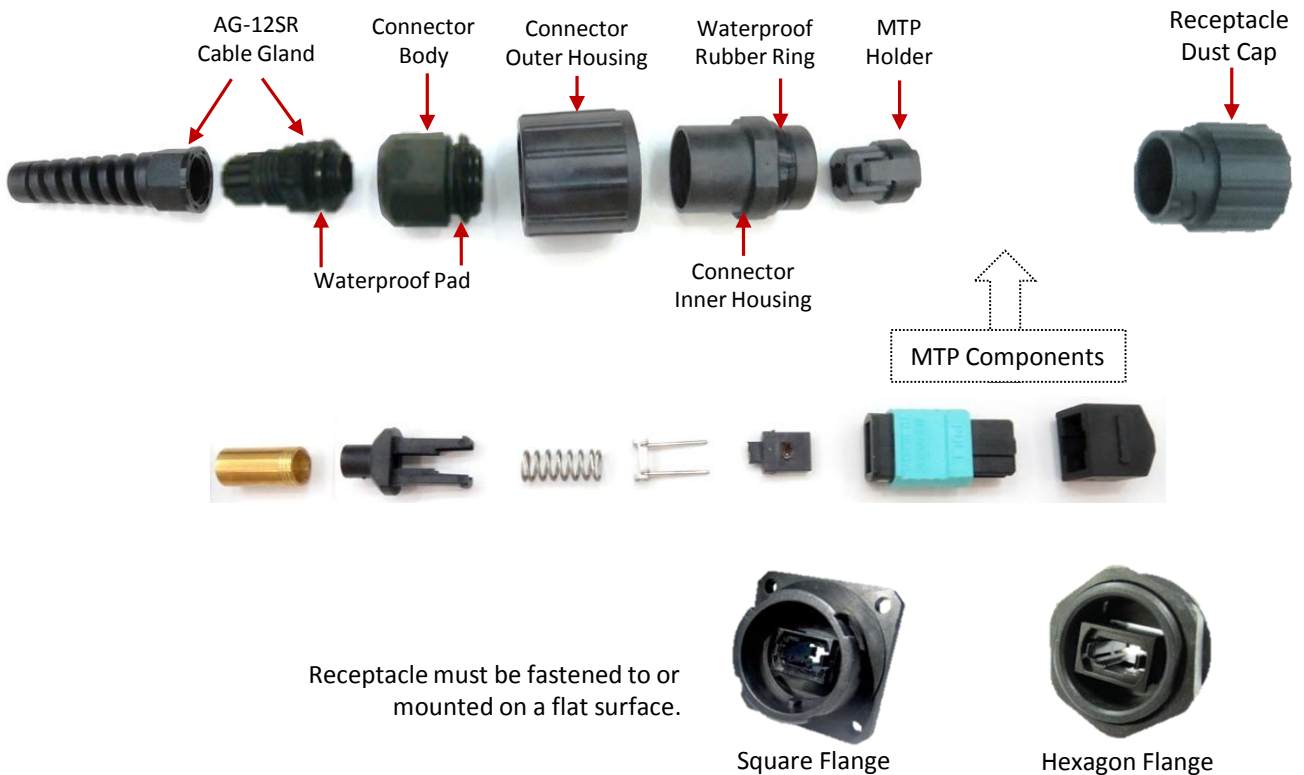| **Tools:**	• Fiber stripper, miller clamp and crimping plier are required for the installation processes.

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

AG-12SR Cable Gland — Connector Body — Connector Outer Housing — Waterproof Rubber Ring — MTP Holder — Receptacle Dust Cap

Waterproof Pad

Connector Inner Housing

MTP Components

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 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.
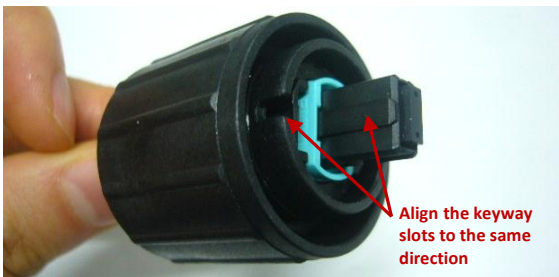*Arrows indicated the sequence and direction for sliding the components onto the cable.

2.3) Follow the polarity requirement on technical drawing and the general assembly procedures to assemble the MTP connector.

2.4) Test the fiber signal integrity with fault locator to ensure the correct fiber channels.

2.5) Insert the MTP connector into the MTP holder , snap into place. MTP outer housing and the MTP holder are aligned to the front.

2.6) Align the keyway slots in MTP connector and connector outer housing to the same direction; insert the MTP holder into the connector inner housing, snap into place.

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

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

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

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