

**Note:** The figure above shows the gasket end of the waveguide without the gasket. A **gasket must be inserted in the groove** with silicon paste for proper sealing.

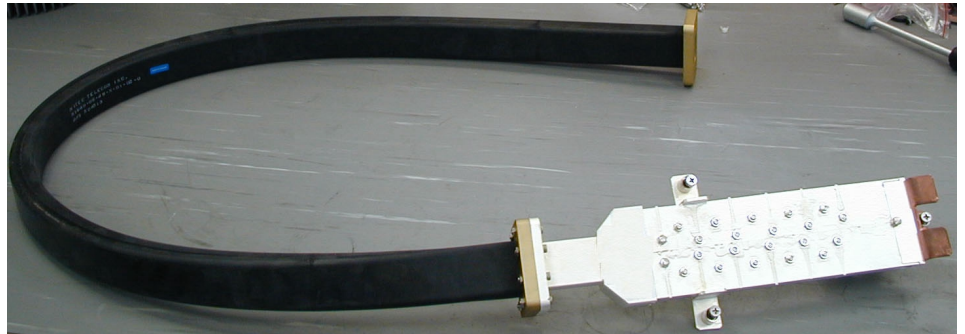


Figure 3-44 Diplexer Connected to Flexible Waveguide

3. Connect the ODU to the adapter plate using 4 latches (no screws), as shown in the following figure.

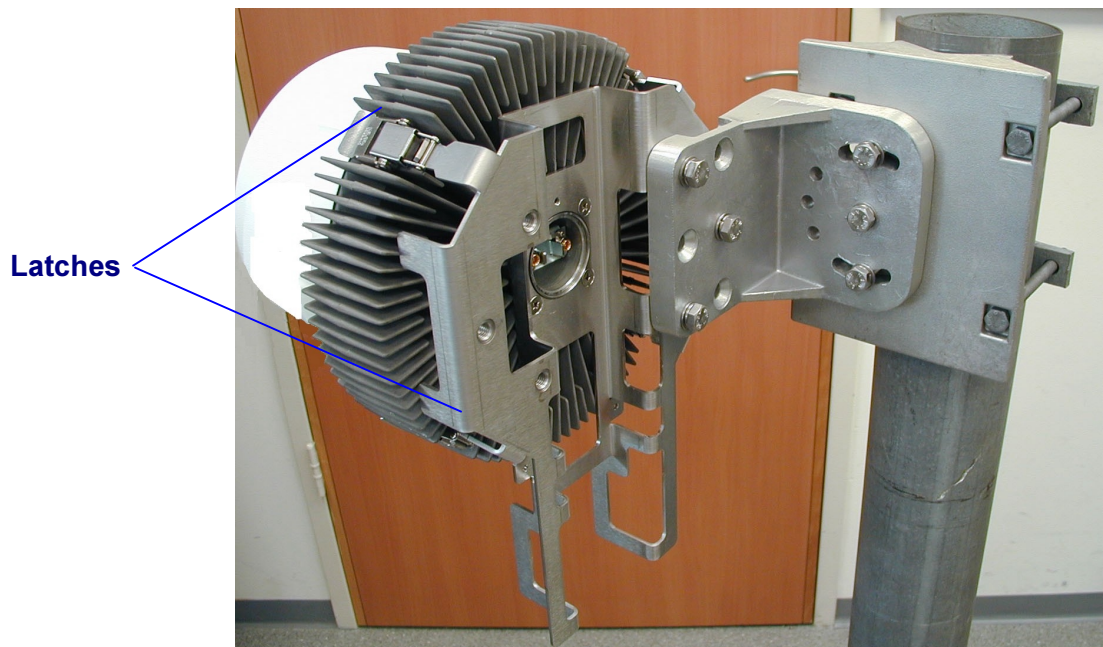
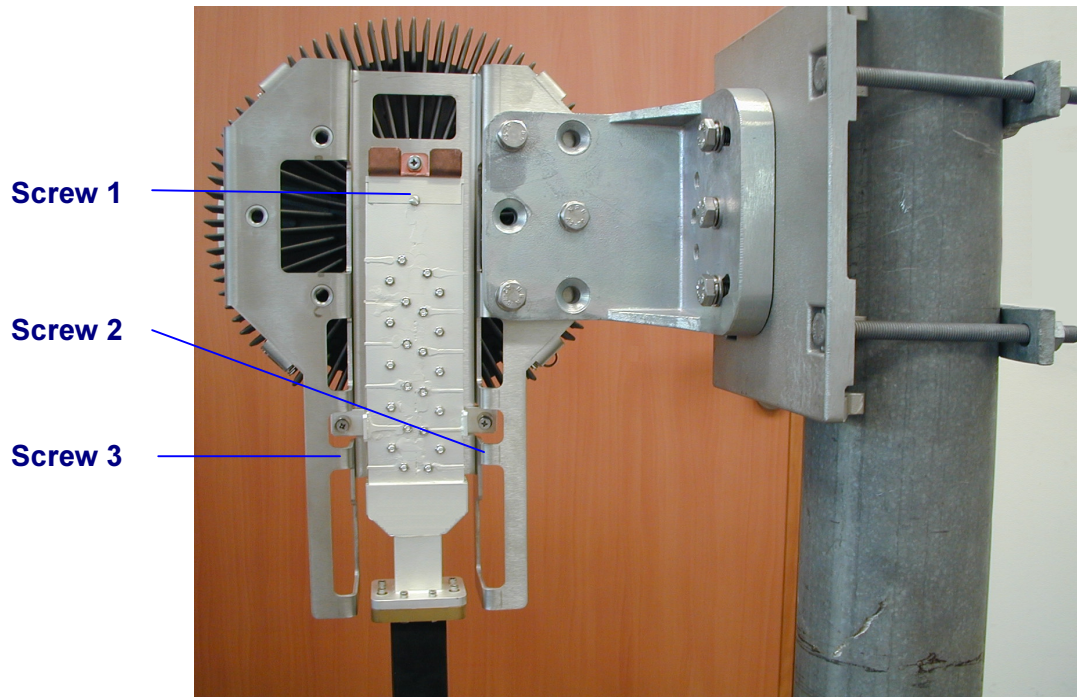


Figure 3-45 ODU Connected to Adapter Plate

4. Before connecting the diplexer to the ODU, apply silicon paste around the diplexer gasket. (Silicon paste is provided with the installation kit.)
5. Insert the diplexer into the adapter plate and ODU carefully, making sure that the gasket has settled well in the ODU cavity.
6. Tighten the diplexer with the waveguide to the adapter plate using 3 screws, as shown in the figure below.



*Figure 3-46 Diplexer with Waveguide Connected to Adapter Plate*

Screw fastening order:

- Fasten screw 1, without tightening it.
- Fasten screws 2 and 3 without tightening them.
- Tighten screw 1.
- Tighten screws 2 and 3.

**Caution:** *The Tx/Rx connectors in the diplexer and the ODU are sensitive. Insert the diplexer in the adapter plate carefully.*

**Note:** The figure above shows the diplexer in the Low position for Tx Low. For Tx High, the diplexer and adapter plate are installed in the opposite direction. (See the *Installation Notes* at the end of the procedure.)

The following figure shows the completed ODU with diplexer assembly.



Figure 3-47 ODU with Diplexer Assembly

**Installation Notes:**

- Each ODU on either side of the link can be configured for Tx high or Tx low according to the diplexer direction.
- A low diplexer direction means that the Tx frequency channel is lower than the Rx.

A high diplexer direction means that the Tx frequency channel is higher than the Rx.

Each link requires one diplexer installed in the low direction and one installed in the high direction, as shown in the following figures.

- It is recommended to use Coax-Seal tape to tape and seal all connection points of the flexible waveguide and diplexer/antenna.

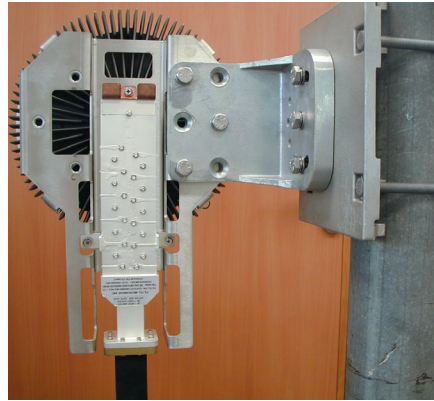


Figure 3-48 Diplexer Tx Low

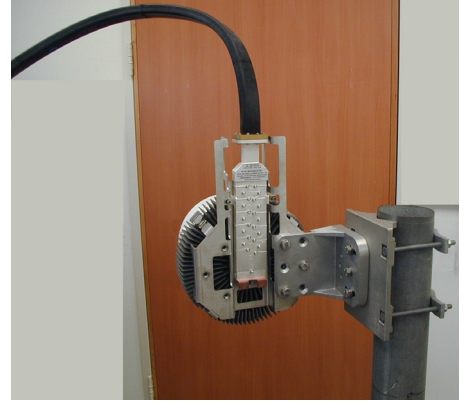


Figure 3-49 Diplexer Tx High

- Note that the assembly is not sealed when the diplexer is not connected to the ODU. During installation or disassembly for maintenance purposes, ensure that the ODU and the diplexer are not exposed to dampness or liquid.

### Flange Mating

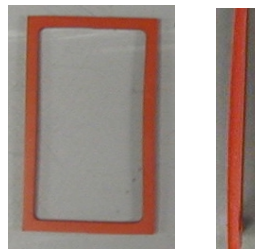
CPR( )G



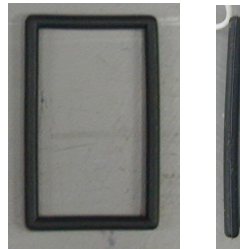
CPR( )F



Half Thick Gasket



Full Thick Gasket



CPR( )G with:

CPR( )F: Use half thick gasket.

CPR( )G: Use full thick gasket.

PDR( ): Use half thick gasket with PDR( ) gasket.

CPR( )F with:

CPR( ) F: Mating cannot be pressurized using gaskets. Use a different sealing method.

PDR( ): Use PDR( ) gasket.