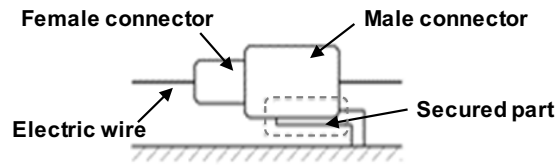
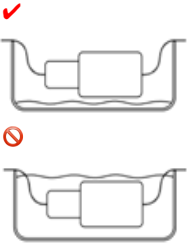
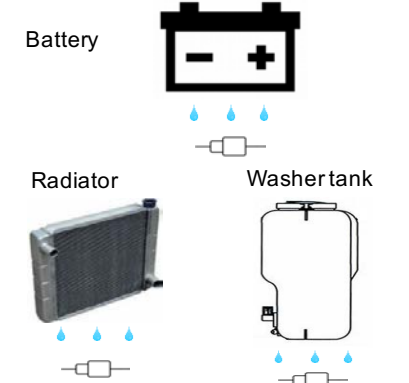
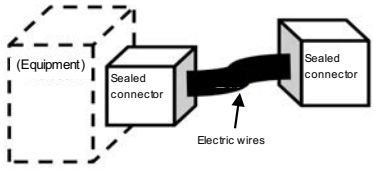
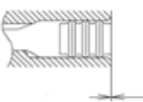
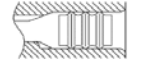
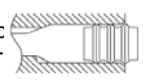


# Notes when the connector is mounted on a vehicle

- Ensure the following contents, and confirm there is no problem with the performance of the connector-before use. As for other operating conditions, refer to the connector specifications.



No.	Notes when mounting the connector on a vehicle	Figure	Possible defects
1	Secure the connector.	<p>✓ Secure it properly.</p>	<p>If the connector is not secured properly, the following defects, etc. may occur.</p> <ul style="list-style-type: none"> <li>□ Strange noise</li> <li>□ Connector damage caused by shaking</li> <li>□ Connection failure caused by vibrations of a vehicle,</li> </ul>
2	Secure the wires in an area exposed to severe vibration or impact, such as an area just above an engine or at a door, to prevent the connector or the terminal from being adversely affected by them, which is to lower the risk of electrical contact failure, etc. due to the vibration of the wires.	<p>✓ Wires are secured</p> <p>No tension applied to the wires</p> <p>⊘ Insecure Loose wires</p>	<p>If the wire is not fixed properly on an area, which is exposed to severe vibration or impact, the following defects, etc. may occur</p> <ul style="list-style-type: none"> <li>□ Connection failure</li> <li>□ Wire break</li> <li>□ Connector damage</li> <li>□ Short circuit/corrosion caused by water</li> </ul>
3	Do not apply tension to the connector and the wire seal when routing the wires.	<p>✓ Secure</p> <p>No tension applied to the wires</p> <p>⊘ Insecure Wire is stretched.</p> <p>⊘ Insecure Wire is stretched.</p>	<p>If tension is applied to the wires, the following defects, etc. may occur.</p> <ul style="list-style-type: none"> <li>□ Short circuit/corrosion caused by water that penetrates from the sealed section.</li> <li>□ Wire break,</li> </ul>
4	Set the connector to prevent water from pooling in the wire seal and the engagement part (connector sealing part).	<p>✓ Secure Horizontal</p> <p>⊘ Insecure Vertical</p> <p>The wire is removed upward.</p>	<p>If water pools in the wire seal or the engagement part, the following defects, etc. may occur.</p> <ul style="list-style-type: none"> <li>□ Short circuit/corrosion by absorbing water</li> <li>□ Connector damage caused by freezing,</li> </ul>
5	When using the connector-in an area which may be affected by stones or is exposed to water (raindrops, mud, high-pressure washing, ice), take measures with a cover, etc. to protect the connector, the wire seal and the wires.	<p>The connector is used without a cover or other protections where a stone may hit.</p>	<p>If the connector is used without any protections in an area which is affected by high-pressure washing, ice, or stones, the following defects, etc. may occur.</p> <ul style="list-style-type: none"> <li>□ Short circuit/corrosion caused by water penetration</li> <li>□ Connector damage</li> </ul>

6	NEVER use the connector in an area which may be submerged, or under the submerged condition.	 <p>The connector is used under the submerged condition.</p>	<p>The connector specifications are not intended for the use under the submerged condition. If not avoided, the following defects, etc. may occur.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Short circuit/corrosion caused by water penetration</li> </ul>
7	When replenishing battery/radiator/window shield washer fluids, do not place the connector in an area where it may be affected by the fluids.	<p>The connector is used in an area where it may be affected by the following fluids when replenishing them.</p>  <p>Battery</p> <p>Radiator</p> <p>Washer tank</p>	<p>If the connector is affected by the fluids, the following defects, etc. may occur.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Short circuit/corrosion caused by water penetration</li> <li><input type="checkbox"/> Connector damage</li> </ul>
8	One of the connectors shall be open to keep the balance of external and internal atmospheric pressure (prevent water penetration from the wires).	 <p>One of the connectors shall be open.</p>	<p>Unless one of the connectors is open, water may penetrate into the connectors due to the pressure fluctuation caused by the environmental temperature change. (Short circuit, corrosion)</p>
9	If using a dummy plug, make sure the dummy plug end does not stick out of the connector end after engaging the connectors.	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> <b>Secure</b> The ends are aligned. </li> <li><input type="checkbox"/> The dummy plug is inserted too deeply. </li> <li><input type="checkbox"/> The dummy plug sticks out of the connector </li> </ul>	<p>If the dummy plug sticks out of the connector end, the following defects may occur.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> The dummy plug comes out of the connector. (Short circuit/corrosion caused by water penetration)</li> </ul>

### Other notes

**Usage of small diameter wires**

Bundle up multiple wires in order not to apply a load on one wire. Do not apply excessive tension to the wires when bundling them up.

**Selection of connector**

Check the connector materials before use. Hydrolysis may occur in the connector depending on its materials when the connector is used under the high temperature/ high humidity conditions.

See the product specifications for the performance and proper operating conditions of the connector.