

UO Series Electrical Connector

Description

UO products are divided into common and shore power: [Common UO]

It is widely used in sonar transducer in deepwater environment, watertight junction boxes and electrical connection between underwater equipment and cable and between cables .

Features: sealing under 0~450 meter of the freshwater or seawater, reliable contact, new structure, advanced process, thread coupling, wire spring socket, solder termination.

The products can accept five shell sizes of 30, 39, 52, 56 and 72 and various insert arrangements, Its performance is in accordance with CB1177-87

[Shore power UO]

Shore power sealed connector is used in high current product in ship and submarine. After the ship and submarine are in shore, the product is connected with shore power equipment and charged them.

During un-mating the plug and receptacle, the receptacle and sealing cap is sealed down to 380 meters of water. Over-washing proof and rain proof can be achieved with reliable contact. Wire spring socket and thread coupling can be used.

Two types: namely SM100 (single contact) 、UO72-3 (three contacts)

Its performance is in accordance with MIL-C-24368A Connector Assemblies, Plug and Receptacle, Electric Power Transfer, Shore to Ship and Ship to Ship.

[Technology]

- Plug and receptacle sealed structure
- Shell and insulator sealed structure
- Contact and insulator sealed structure
- Protective cap and shell sealed structure
- Flange and transducer sealed structure
- Cable and connector sealed technology
- Precision process technology
- Material: long-term seawater immersion resistance








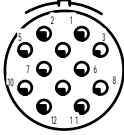
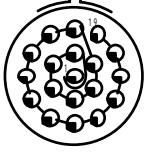
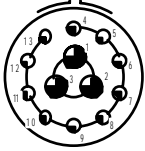
Technical characteristic

[Common UO]


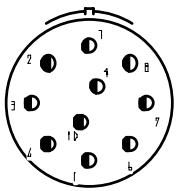
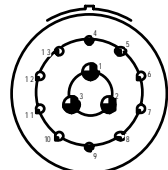
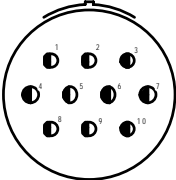
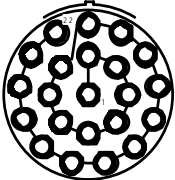
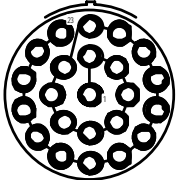
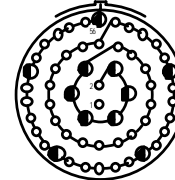
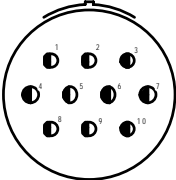
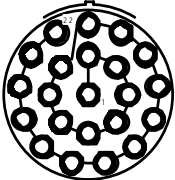
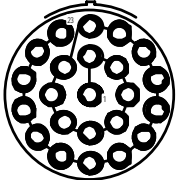
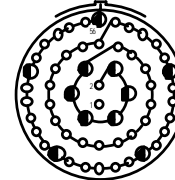
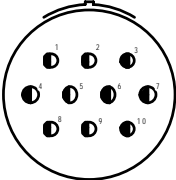
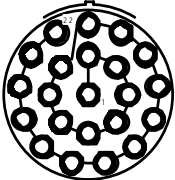
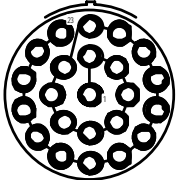
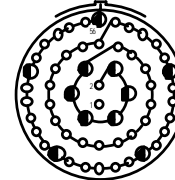
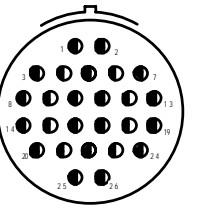
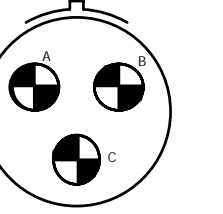
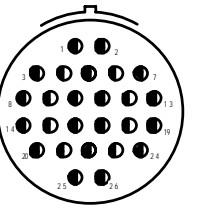
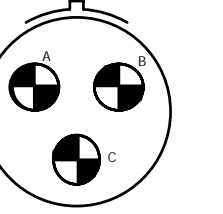
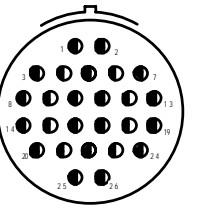
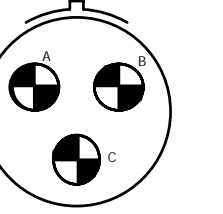
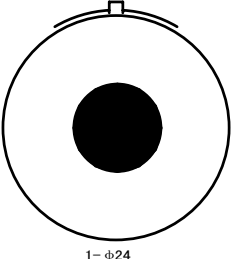
- Operating temperature: -40℃~+110℃
- Vibration: frequency 10~2000Hz, acceleration 196m/s²
- Impact: acceleration 100m/s²
- Tensile strength: axial tensile strength $P \geq 9.8dN$ (d is outer diameter of cable)
- Bend: 100 cycles
- Insulation resistance: normal $\geq 500M\Omega$ heat & damp $\geq 100M\Omega$
- Withstanding voltage: 1500V (1000V for coaxial contacts)
- Endurance: 500 cycles
- Hydrostatic pressure resistance: shallow water 0~0.5Mpa; deep water 0~4.5Mpa
- Contact resistance and rated current

Dia. of contact (mm)	Φ0.8	Φ1.0	Φ1.5	Φ3	Φ4 (Φ0.8)	Φ5.5
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Insert arrangement

22	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>22-2</p>  <p>2-φ 1.0</p> </div> <div style="text-align: center;"> <p>22-3</p>  <p>3-φ 1.0</p> </div> <div style="text-align: center;"> <p>22-4</p>  <p>4-φ 1.0</p> </div> </div>
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33	<div style="text-align: center;"> <p>33-12</p>  <p>12-φ 1.0</p> </div>
36	<div style="text-align: center;"> <p>36-19</p>  <p>19-φ 1</p> </div>
39	<div style="text-align: center;"> <p>39-13</p>  <p>3-φ 3, 10-φ 1</p> </div>



42	<p>42-13</p>  <p>3-φ5.5, 10-φ1</p>				
45	<p>45-10</p>  <p>10-φ1.5</p>				
52	<p>52-13</p>  <p>3-φ3, 10-φ1</p>				
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<p>56-10</p>  <p>10-φ1.5</p>	<p>56-22</p>  <p>22-φ0.8同轴接触件</p>	<p>56-23</p>  <p>23-φ0.8同轴接触件</p>	<p>56-56</p>  <p>11-φ1.5, 45-φ0.8</p>		
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<p>72-26</p>  <p>26-φ1.5</p>	<p>72-3</p>  <p>3-φ9.1</p>				
100	<p>100-1</p>  <p>1-φ24</p>				

○ φ0.8

● φ1.0

● φ1.5

● φ3.0

○ φ0.8 Coaxial contacts

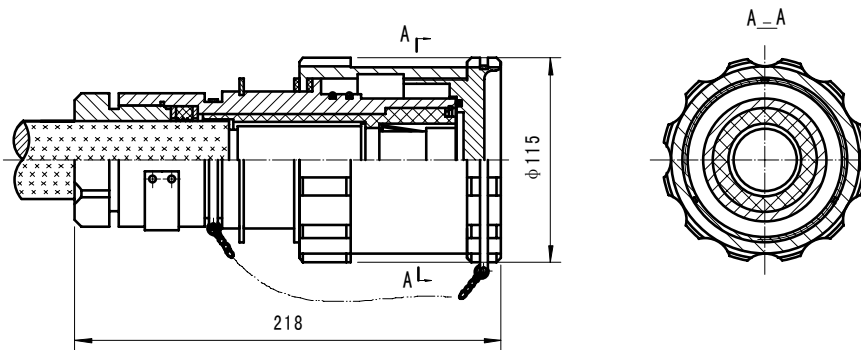
● φ5.5

● φ9.1

● φ24

*UO100GZ1P-S, UO100T1S-S (Five keys: U, V, W, o+, o-)

Plug



Fixed receptacle

