ADVANCED CONNECTOR SOLUTIONS

Ruggedized miniature circular connector
A PERFECT ALLIANCE.

ODU GROUP OVERVIEW

• More than 75 years of experience in connector technology
• A turnover of €200 million
• Over 2,300 employees worldwide
• Sales subsidiaries in China, Denmark, France, Germany, Italy, Japan, Korea, Sweden, UK and the US as well as 5 production and logistics sites
• All technologies under one roof: Design and development, machine tool and special machine construction, injection, stamping, turning, surface technology, assembly and cable assembly

Certicates & Approvals

• ISO 9001
• IATF 16949
• ISO 13485
• ISO 14001
• ISO 50001
• Wide range of UL, CSA, VG and VDE approvals
• UL Wiring Harnesses certifed

For a complete list of our certifcations and approvals, please visit our website.

As of February 2019

Connections that live up to any requirement

Contacts, connectors and integrated cable assembly solutions meeting the most demanding technical market requirements – ODU’s connector solutions and value-added services are characterized by their exclusive focus on meeting the customer’s needs.

• Precise implementation of application-specifc requirements regarding design, functionality, cost and exclusivity
• Modified connector solutions derived from standard products
• One-to-one local expertise and fair, friendly consulting
• Short development and production paths
ODU CONNECTORS

APPLICABILITY

SOLDIER COMMUNICATION SYSTEMS

- 70% weight and size reduction
- IP68 (up to 20 m)

MILITARY VEHICLES

- Shock and vibration resistance
- Ergonomic shape and rapid mate/demate capable

UNMANNED SYSTEMS: UAV/UGV/UAS

- High vibration resistance
- High-speed data transfer
## ODU ADVANCED CONNECTOR PORTFOLIO

### CIRCULAR

<table>
<thead>
<tr>
<th>MECHANICAL</th>
<th>ODU AMC® High-Density</th>
<th>ODU AMC® Push-Pull</th>
<th>ODU AMC® Break-Away</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push-Pull option</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Break-Away option</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screw-Locking option</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solder cup termination</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell material</td>
<td>Brass</td>
<td>Aluminum</td>
<td></td>
</tr>
<tr>
<td>Number of Contacts</td>
<td>up to 40 (Pin/Socket)</td>
<td>up to 55 (Pin/Socket)</td>
<td></td>
</tr>
<tr>
<td>IP68</td>
<td>Up to 20 m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wire, Flex or PCB termination</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salt spray resistance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>−51 °C to +125 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced plating technologies for corrosion resistance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RoHS compliant</td>
<td></td>
<td></td>
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<tr>
<td>Rapid cable assembly manufacturing</td>
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</tbody>
</table>

### DEDICATED SIGNAL CONFIGURATIONS

| Signal & power transmission              |                       |                   |                     |
| USB® 3.2 Gen1x1¹                        |                       |                   |                     |
| USB® 2.0¹                               |                       |                   |                     |
| HDMI®¹                                  |                       |                   |                     |
| Ethernet 1 Gbit/s and 10 Gbit/s¹        |                       |                   |                     |

### 2-IN-1 SOLUTION

- Break-Away for quick and easy unlocking
- With additional Screw-Lock for a maximum resistance to vibration
- High contact density: 2–16 poles / 2 sizes
- Extremely rugged housing with non-reflecting surface

### MODULAR/RECTANGULAR

- Application-specific hybrid interface
- High vibration resistance
- Flexible modular construction
- Transmission of signals, power, high current, high voltage,
- HF signals (coax), media, high-speed data and fiber optics
- Extremely durable – even under extreme conditions
- > 100,000 mating cycles
ODU AMC® High-Density
ODU AMC® Push-Pull
ODU AMC® Break-Away
ODU AMC® Easy-Clean
ODU Threaded Connector
ODU MINI-SNAP®

**MECHANICAL**
- Push-Pull option • • • • •
- Break-Away option • • • • •
- Screw-Locking option • • • • •
- Solder cup termination • • • • •
- Shell material: Brass, Aluminum, Aluminum, Brass
- Number of Contacts: up to 40 (Pin/Socket), up to 55 (Pin/Socket), up to 19 (Spring/Probe), up to 26 (Pin/Socket), up to 40 (Pin/Socket)
- IP68: Up to 20 m • • • • •
- Wire, Flex or PCB termination • • • • •
- Salt spray resistance • • • • •
- Operating temperature range: –51 °C to +125 °C, –51 °C to +125 °C, –40 °C to +120 °C
- Advanced plating technologies for corrosion resistance • • • • •
- RoHS compliant • • • • •
- Rapid cable assembly manufacturing • • • • •

**TECHNOLOGY**
- High precision contacts
- Fully customizable
- Low contact resistance
- High current carrying capacity

**CONTACT TECHNOLOGY**

1. These ODU specific connectors can transmit common data transmission protocols such as USB® 3.2 Gen1x1, USB® 2.0, HDMI®, Ethernet 1 Gbit/s and 10 Gbit/s, but they are not USB®, HDMI®-, and Ethernet-standard connectors.
ADVANCED CUSTOMER BENEFITS

+ Rapid prototyping and product development
+ Local one-to-one engineering support
+ Rapid cable assembly manufacturing
+ Factory direct

HIGH LEVEL OF VERTICAL INTEGRATION

ODU consolidates all necessary expertise under one roof.

RAPID CABLE ASSEMBLY MANUFACTURING

+ Custom turnkey solutions
+ Thermoplastic injection molding design & fabrication
+ Customized overmouldings for small batch series
+ Private labeling
+ ITAR regulated facility
SMALLER LIGHTER FASTER
ODU GROUP WORLDWIDE

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Mexico ODU Mexico Manufacturing S.R.L. de C.V.

Romania ODU Romania Manufacturing S.R.L.

USA ODU North American Logistics

www.odu-connectors.com

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