A PERFECT ALLIANCE.

ADVANCED CONNECTOR SOLUTIONS

1. Personal one-to-one technical support
2. Standard products readily available
3. Cable assembly integrated solutions
4. Rapid product development
5. Custom capabilities to meet technical challenges

CIRCULAR CONNECTORS
ELECTRICAL CONTACTS
MODULAR CONNECTORS
CABLE ASSEMBLY

www.odu-usa.com
ODU CONNECTIVITY SOLUTIONS AND CAPABILITIES

- Push-Pull locking
- Break-Away locking
- Spindle or lever locking
- High-speed data transmission (> 480 Mbit/s)
- Mechanical coding
- Blind mate/blind insertion
- 360° Shielding
- Watertight
- High mating cycles (< 5,000)
- High mating cycles (> 100,000 and more)
- Vibration & shock resistant
- Rack panel w/docking frame
- Threaded technology

ODU MINI-SNAP®
ODU MEDI-SNAP®
ODU MINI-MED®
ODU AMC®
ODU Threaded Connector
ODU-MAC®
CABLE ASSEMBLY

BUY ONLINE NOW
store.odu-usa.com

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A PERFECT ALLIANCE.

ODU 5 STAR CUSTOMER EXPERIENCE

1. PERSONAL ONE-TO-ONE TECHNICAL SUPPORT
2. STANDARD PRODUCTS READILY AVAILABLE
3. CABLE ASSEMBLY INTEGRATED SOLUTIONS
4. RAPID PRODUCT DEVELOPMENT
5. CUSTOM CAPABILITIES TO MEET TECHNICAL CHALLENGES

ODU GROUP OVERVIEW
- More than 80 years of experience in connector technology
- Over 2,300 employees worldwide
- 11 sales subsidiaries in China, Denmark, France, Germany, Italy, Japan, Korea, Sweden, the 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.
- We operate in the following markets: Medical, military and security, test & measurement, industrial, energy, and emobility.

As of February 2019

CERTIFIED QUALITY
- ISO 9001
- IATF 16949
- ISO 13485
- ISO 14001
- ISO 50001
- Wide range of UL, CSA, VG and VDE licenses
- UL certified cable assembly

For a complete list of our certifications, please visit our website.

www.odu-usa.com
**ODU CUSTOM CONNECTOR CAPABILITIES**

**EXTREME DESIGNS - PUSHING THE LIMITS**

See below some of our technical capabilities that have been used for specific custom applications. We continuously work with our customers to meet the most extreme technical challenges.

**CONTACT OUR ENGINEERING TEAM**

Email us at: myapplication@odu-usa.com

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Extremes ODU has achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>High current</td>
<td>2,400 A</td>
</tr>
<tr>
<td>High voltage</td>
<td>56 kV (DC) 36 kV (AC)</td>
</tr>
<tr>
<td>Water protection</td>
<td>IP67 / IP68 / IP69K / IP6K9K</td>
</tr>
<tr>
<td>Vacuum tightness</td>
<td>1 × 10^12 mbar/s</td>
</tr>
<tr>
<td>Salt hours</td>
<td>700 hours</td>
</tr>
<tr>
<td>EMC / EMI protection</td>
<td>&gt; 75 dB (0 - 5 MHz) / &gt; 65 dB (5 MHz - 500 MHz)</td>
</tr>
<tr>
<td>High speed data rate</td>
<td>USB® 3.1 Gen 1 - 5 Gbit/s / HDMI® 2.0 - 14.4 Gbit/s / 10 Gbit Ethernet - 10 Gbit/s</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>Up to 300 °C</td>
</tr>
<tr>
<td>Pressure</td>
<td>650 bar (9427 psi) operating receptacle / 500 bar (7251 psi) operating mated condition / 1,000 bar (14503 psi) burst</td>
</tr>
<tr>
<td>Vibration</td>
<td>120 kHz (20g, 10 - 2000 Hz, 22x) Four-time multisinus perf three-dimensional axis (16 g, 20 – 2000 Hz, 65 h per axis)</td>
</tr>
<tr>
<td>Mating cycles</td>
<td>&gt;1 Million</td>
</tr>
<tr>
<td>Hydraulic connection</td>
<td>25 bar (362 psi) operating</td>
</tr>
<tr>
<td>Pneumatic connection</td>
<td>20 bar (290 psi) operating</td>
</tr>
<tr>
<td>Fiber optic</td>
<td>&lt; 1 dB typical Ω 100,000 mating cycles single mode/multimode</td>
</tr>
<tr>
<td>Magnetic permeability</td>
<td>Magnetic permeability µr &lt; 1.005</td>
</tr>
<tr>
<td>Environmental</td>
<td>Salt spray / fog, chemical resistance, UV, Arizona dust, radiation, sterilization</td>
</tr>
<tr>
<td>Shock</td>
<td>1000 g</td>
</tr>
<tr>
<td>Contact density</td>
<td>1 contact/mm²</td>
</tr>
<tr>
<td>Smallest contact diameter</td>
<td>0.3 mm</td>
</tr>
<tr>
<td>Smallest circular connector diameter</td>
<td>5 mm</td>
</tr>
<tr>
<td>On driving test</td>
<td>Electric vehicle adapter</td>
</tr>
<tr>
<td>Self finding solutions</td>
<td>+/- 5 mm float (shield and tight)</td>
</tr>
</tbody>
</table>

1 These ODU specific connectors can transmit common data transmission protocols such as USB®, HDMI® and Ethernet, but they are not USB®-, HDMI®- and Ethernet-standard connectors.

**ODU PRODUCT AVAILABILITY**

- [ODU DIRECT SALES](mailto:sales@odu-usa.com) or call 805.484.0540
- [ODU WEBSTORE](https://store.odu-usa.com)
- [ODU DISTRIBUTION](https://www.odu-distribution.com)

**ODU HIGHT-DENSITY CONNECTOR PORTFOLIO**

**ODU AMC® High-Density**

- Up to 40 contacts
- High current: 2,400 A
- High voltage: 56 kV (DC) 36 kV (AC)
- Vacuum tightness: 1 × 10^12 mbar/s
- High speed data rate: USB® 3.1 Gen 1 - 5 Gbit/s / HDMI® 2.0 - 14.4 Gbit/s / 10 Gbit Ethernet - 10 Gbit/s
- Operating temperature: Up to 300 °C
- Pressure: 650 bar (9427 psi) operating receptacle / 500 bar (7251 psi) operating mated condition / 1,000 bar (14503 psi) burst

**ODU AMC® Push-Pull**

- Up to 27 contacts
- High current: 2,400 A
- High voltage: 56 kV (DC) 36 kV (AC)
- Vacuum tightness: 1 × 10^12 mbar/s
- High speed data rate: USB® 3.1 Gen 1 - 5 Gbit/s / HDMI® 2.0 - 14.4 Gbit/s / 10 Gbit Ethernet - 10 Gbit/s
- Operating temperature: Up to 300 °C
- Pressure: 650 bar (9427 psi) operating receptacle / 500 bar (7251 psi) operating mated condition / 1,000 bar (14503 psi) burst

**ODU AMC® Break-Away**

- Up to 16 contacts
- High current: 2,400 A
- High voltage: 56 kV (DC) 36 kV (AC)
- Vacuum tightness: 1 × 10^12 mbar/s
- High speed data rate: USB® 3.1 Gen 1 - 5 Gbit/s / HDMI® 2.0 - 14.4 Gbit/s / 10 Gbit Ethernet - 10 Gbit/s
- Operating temperature: Up to 300 °C
- Pressure: 650 bar (9427 psi) operating receptacle / 500 bar (7251 psi) operating mated condition / 1,000 bar (14503 psi) burst

**ODU AMC® Easy-Clean**

- Up to 7 contacts
- High current: 2,400 A
- High voltage: 56 kV (DC) 36 kV (AC)
- Vacuum tightness: 1 × 10^12 mbar/s
- High speed data rate: USB® 3.1 Gen 1 - 5 Gbit/s / HDMI® 2.0 - 14.4 Gbit/s / 10 Gbit Ethernet - 10 Gbit/s
- Operating temperature: Up to 300 °C
- Pressure: 650 bar (9427 psi) operating receptacle / 500 bar (7251 psi) operating mated condition / 1,000 bar (14503 psi) burst

**ODU LIGHTWEIGHT CONNECTOR PORTFOLIO**

**ODU AMC® Push-Pull**

- Up to 27 contacts
- High current: 2,400 A
- High voltage: 56 kV (DC) 36 kV (AC)
- Vacuum tightness: 1 × 10^12 mbar/s
- High speed data rate: USB® 3.1 Gen 1 - 5 Gbit/s / HDMI® 2.0 - 14.4 Gbit/s / 10 Gbit Ethernet - 10 Gbit/s
- Operating temperature: Up to 300 °C
- Pressure: 650 bar (9427 psi) operating receptacle / 500 bar (7251 psi) operating mated condition / 1,000 bar (14503 psi) burst

**FAST SAMPLE AVAILABILITY**

Email us at: sales@odu-usa.com

**RAPID CABLE ASSEMBLY MANUFACTURING**

**ODU AMC® HIGH-DENSITY**

- Pin and groove
- X X
- IP68

**ODU AMC® Push-Pull**

- Pin and groove
- X X
- IP68

**ODU AMC® Break-Away**

- Pin and groove
- X X
- IP68

**ODU AMC® Easy-Clean**

- Pin and groove
- X X
- IP68

**FAST SAMPLE AVAILABILITY**

Email us at: sales@odu-usa.com

**RAPID CABLE ASSEMBLY MANUFACTURING**

**ODU AMC® HIGH-DENSITY**

- Pin and groove
- X X
- IP68

**ODU AMC® Push-Pull**

- Pin and groove
- X X
- IP68

**ODU AMC® Break-Away**

- Pin and groove
- X X
- IP68

**ODU AMC® Easy-Clean**

- Pin and groove
- X X
- IP68

**ODU PRODUCT AVAILABILITY**

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- [ODU DISTRIBUTION](https://www.odu-distribution.com)

**ODU HIGH-DENSITY CONNECTOR PORTFOLIO**

**ODU AMC® High-Density**

- Pin and groove
- X X
- IP68

**ODU AMC® Push-Pull**

- Pin and groove
- X X
- IP68

**ODU AMC® Break-Away**

- Pin and groove
- X X
- IP68

**ODU AMC® Easy-Clean**

- Pin and groove
- X X
- IP68

**ODU LIGHTWEIGHT CONNECTOR PORTFOLIO**

**ODU AMC® Push-Pull**

- Pin and groove
- X X
- IP68

**ODU AMC® Break-Away**

- Pin and groove
- X X
- IP68

**ODU AMC® Easy-Clean**

- Pin and groove
- X X
- IP68

**ODU PRODUCT AVAILABILITY**

- [ODU DIRECT SALES](mailto:sales@odu-usa.com) or call 805.484.0540
- [ODU WEBSTORE](https://store.odu-usa.com)
- [ODU DISTRIBUTION](https://www.odu-distribution.com)
1 IP protection class in mated condition.
2 IP protection class in unmated condition to the end device.

<table>
<thead>
<tr>
<th>Coding</th>
<th>Solder</th>
<th>Crimp</th>
<th>Print</th>
<th>IP Protection class1</th>
<th>IP Protection class2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ODU MINI- SNAP® L</td>
<td>• IP50</td>
<td>• 5,000 mating cycles</td>
<td>Pin and groove</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>9</td>
<td>5.6</td>
<td>10</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>11.5</td>
<td>7.7</td>
<td>16</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>14.5</td>
<td>9.9</td>
<td>26</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>175</td>
<td>11.9</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>25.0</td>
<td>16.0</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>ODU MINI- SNAP® K</td>
<td>• IP68</td>
<td>• 5,000 mating cycles</td>
<td>Pin and groove</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>13.0</td>
<td>7.0</td>
<td>16</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>16.0</td>
<td>9.0</td>
<td>26</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>19.0</td>
<td>10.5</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>25.0</td>
<td>14.0</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>ODU MINI- SNAP® B</td>
<td>• IP68</td>
<td>• 5,000 mating cycles</td>
<td>Pin and groove</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>9.0</td>
<td>7.0</td>
<td>16</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>10.0</td>
<td>9.0</td>
<td>26</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>13.0</td>
<td>10.5</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>ODU MINI- SNAP® S</td>
<td>• IP50 and IP68</td>
<td>• Coax and triax</td>
<td>Insulator</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>12.0</td>
<td>7.0</td>
<td>05</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>15.0</td>
<td>9.0</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>ODU MINI- SNAP® F</td>
<td>• IP50 and IP68</td>
<td>• 5,000 mating cycles</td>
<td>Half shell</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>12.0</td>
<td>7.5</td>
<td>12</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>13.0</td>
<td>7.5</td>
<td>19</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>15.0</td>
<td>9.5</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>18.0</td>
<td>11.5</td>
<td>27</td>
<td></td>
</tr>
</tbody>
</table>

1 IP protection class in mated condition.
2 IP protection class in unmated condition to the end device.

1 ODU MINI- SNAP® L
• Plastic connector
• IP50 and IP67
• Shielded version available

2 ODU MINI- SNAP® K
• Space saving design
• Pre-assembled solution
• Up to 1,000 mating cycles

3 ODU MINI- SNAP® B
• Plastic connector
• IP50 and IP67
• Shielded version available

4 ODU MINI- SNAP® S
• Plastic connector
• IP50 and IP67
• Shielded version available

5 ODU MINI- SNAP® F
• Plastic connector
• IP50 and IP67
• Shielded version available

6 ODU MINI-MED®
• Space saving design
• Pre-assembled solution

7 Fast Sample Availability
Email us at: sales@odu-usa.com

8 ODU MINI-SNAP® PC
• Plastic connector
• IP50 and IP67
• Shielded version available

<table>
<thead>
<tr>
<th></th>
<th>ODU-MAC® Silver-Line</th>
<th>ODU-MAC® White-Line</th>
<th>ODU-MAC® Blue-Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mating cycles</td>
<td>&gt; 100,000</td>
<td>&gt; 100,000</td>
<td>&gt; 10,000</td>
</tr>
<tr>
<td>Automatic docking</td>
<td>6 Frame varieties, individual length, Quick-change head option</td>
<td>Manual mating</td>
<td>1 Frame variety, 4 sizes</td>
</tr>
<tr>
<td>Locking</td>
<td>Spindle / lever locking</td>
<td>Snap-In (ZERO)</td>
<td>Spindle / lever locking</td>
</tr>
<tr>
<td>Housing</td>
<td>Available in plastic and metal</td>
<td>Available in plastic and metal</td>
<td>Available in plastic and metal</td>
</tr>
<tr>
<td>Strain relief housing</td>
<td>● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ●</td>
</tr>
<tr>
<td>Highest packing density on the market</td>
<td>● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ●</td>
</tr>
<tr>
<td>Non-magnetic version</td>
<td>● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ●</td>
</tr>
</tbody>
</table>

**VARIETY OF MODULES**

**Signal**
- Up to 27 A / 1.5 mm²
- Up to 33 A / 2.5 mm²

**Power**
- Up to 119 A / 16 mm²
- Up to 58 A / 6 mm²

**High current**
- Up to 220 A / 50 mm²
- Up to 225 A / 25 mm²

**High voltage**
- Up to 6.3 kV / 1.5 mm²
- Up to 2.5 kV / 6 mm²

**Coax**
- Up to 9.0 GHz
- Up to 4.0 GHz

**Compressed air**
- Up to 25 bar
- Up to 20 bar

**Fluid**
- Up to 25 bar
- Up to 20 bar

**Fiber optic POF / GOF**
- ● (GOF only on request)

**Transfer rates / high-speed**
- CAT 6a / USB® / HDMI®
- CAT 6a / USB®

**Optional pin protection**
- Module can be freely positioned
- Integrated with 20-pin signal module

**Termination technology**
- Crimp / solder / print
- Crimp / solder / print through PCB termination modules

**Contact technology**
- Springwire technology
- Springwire technology
- Lamella technology
- Turned, slotted contacts
- Stamping technology

**Contact security**
- ● ● ● ● ● ● ● ● ● ● ●
- ● ● ● ● ● ● ● ● ● ● ●
- ● ● ● ● ● ● ● ● ● ● ●
- ● ● ● ● ● ● ● ● ● ● ●
- ● ● ● ● ● ● ● ● ● ● ●

**Contact diameter**
- From 0.76 mm
- From 0.64 x 0.64 mm
- From 1.5 mm
- From 1.5 mm
- 3 and 6 mm

**Mating cycles**
- > 100,000 (up to 1 million)
- > 50,000
- > 10,000
- > 10,000
- > 10,000

**Operating temperature range**
- –40°C to +120°C
- –40°C to +120°C
- –40°C to +200°C
- –40°C to +200°C
- –40°C to +105°C

**High temperature range**
- Up to +300°C (on request)
- Up to +200°C (on request)

**Surfaces**
- Ag
- Ag / Au
- Ag
- Ag
- Ag

**Termination technologies**
- Crimp / screw / solder
- Crimp / screw / solder
- Crimp / screw / solder
- Crimp / screw / solder
- Crimp

**Current (6mm) per**
- IEC 60512-5-2:2002
- 95 A
- 130 A
- 90 A

**Angular misalignment**
- +/- 1°
- +/- 1°
- +/- 5°

**Contact material**
- CuSn alloy or CuBe
- CuBe alloy
- CuZnPb

**Primary attribute**
- High mating cycles
- Test & Measurement
- High-current
- High volume

**Points of contact**
- 360° circular
- Single or double sided
- 360° Circular
- 1,2,4,6 Times circular

*These ODU specific connectors can transmit common data transmission protocols such as HDMI®, USB® and CAT 6a, but they are not HDMI®, USB® and CAT-standard connectors.

*Exceeds market standards

ORDER SAMPLES NOW
Email us at: sales@odu-usa.com
ODU EMOBILITY CONNECTOR SOLUTIONS

ODU POWER MATE® 400
Low Profile High Voltage
• Up to 400 A
• 1000 V
• Up to 95 mm² cable
• Extremely low profile
• Ideal for HV battery / inverter applications specifically where space is critical

ODU DOCKING MATE®
Tolerance compensating connector systems enable a wide range of applications
• Compensation of tolerances up to +/- 5mm possible
• Custom power & signal combinations available
• Ideal for hot swapping / blind mating applications

ODU GEN2 – 2 POLE HV CONNECTOR SYSTEM
• Trouble-free: Shielding attenuation > 60 db
• Tested: As per the requirements of LV215
• Sealing: IP6K9K sealing class

ODU CABLE ASSEMBLY SOLUTIONS

REQUEST A QUOTE
Email us at sales@odu-usa.com

CUSTOM TURNKEY SOLUTIONS
• Rapid product development
• Thermoplastic injection molding design & fabrication
• Bonding & laser etching
• Private labeling
• Factory direct
• ITAR regulated facility
• One stop shop
• Solder, crimp and PCB terminations
• Overmolding with TPE, TPU, PVC and silicone
• Customizable overmolding
• EMC-compatible assembly
• 100% final inspection
• Custom specific testing options available

APPLICATIONS

MEDICAL
TEST & MEASUREMENT
MILITARY & SECURITY
INDUSTRIAL
ENERGY
EMOBILITY
A PERFECT ALLIANCE.

ODU GROUP WORLDWIDE

ODU USA

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Fax: +49 8631 6 156 - 49
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Mexico ODU Mexico Manufacturing S.R.L. de C.V.
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Fax: +49 8631 6 156 - 49
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www.odu.de

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Phone: +1 805 484-0540, Fax: +1 805 484-7458, E-mail: sales@odu-usa.com

Further information and specialized representatives can be found at:
www.odu-usa.com/contact

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