ADVANCED CIRCULAR CONNECTOR SOLUTIONS

Push-Pull, Break-Away and Screw-Locking

ODU MINI-SNAP®
ODU MEDI-SNAP®
ODU MINI-MED®
ODU MINI-SNAP®PC
ODU AMC®
ODU AMC® HIGH-DENSITY
ODU THREADED CONNECTOR

www.odu-usa.com
A PERFECT ALLIANCE.

ODU GROUP OVERVIEW

- More than 80 years of experience in connector technology
- Over 2,300 employees worldwide
- 18 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 and measurement, industrial, energy, and automotive / emobility

As of February 2019

CERTIFIED QUALITY

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

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

www.odu-usa.com

ODU CIRCULAR CONNECTOR SOLUTIONS AND CAPABILITIES

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<tr>
<td>Push-Pull locking</td>
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<tr>
<td>Break-Away locking</td>
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<tr>
<td>High-speed data transmission (&gt; 480 Mbit/S)</td>
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<tr>
<td>Mechanical coding</td>
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<tr>
<td>Blind mate/blind insertion</td>
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<tr>
<td>360° Shielding</td>
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<td>Watertight</td>
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<tr>
<td>High mating cycles (&gt; 5,000)</td>
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<td>●</td>
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<tr>
<td>Vibration &amp; shock resistant</td>
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<tr>
<td>Threaded technology</td>
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<tr>
<td>Silicone overmold</td>
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</table>

* Approved for ODU MEDI-SNAP® Break-Away Plugs in PSU
** Available in ODU AMC® High-Density Chrome-Plated
# ODU HIGH-DENSITY & LIGHTWEIGHT CONNECTOR PORTFOLIO

## ODU AMC® Push-Pull
- **70% weight and size reduction**
- **Cable assembly solutions**
- IP68 [20 m submersion]
- **Chrome plated version available**
- USB® 3.2 Gen 1x1 + USB® 2.0 + HDMI® 2.0 + Ethernet

## ODU AMC® Break-Away
- **High vibration resistance**
- **High speed data transfer**
- IP68
- **High contact density:** 2–16 contacts / 2 sizes

## ODU AMC® Easy-Clean
- **Fast and easy cleaning**
- **Break-Away function**
- >5,000 mating cycles
- **Contact inserts with pogo pins**

## ODU High-Speed Screw-Lock
- **70% weight and size reduction**
- **Cable assembly solutions**
- IP68 [20 m submersion]
- **Chrome plated version available**
- USB® 3.2 Gen 1x1 + USB® 2.0 + HDMI® 2.0 + Ethernet

## ODU THREADED CONNECTOR
- **High shock and vibration**
- **Signal and power**
- IP68

|--------|------|---------------|--------------------|-------------------------|-------------------|---------------|---------------|----------------------|-----------------------------|---------------|---------------|
| 00     | 4    | 9.8 5.0 7    | • IPSKB  
          • IPEB  
          • Brass  | • 51°C (–60°F) to +125°C (+257°F) | • • • • • • • • • • • • • |
| 0      | 4    | 12.8 7.0 16  | • IPSKB  
          • IPEB  
          • Brass  | • 51°C (–60°F) to +125°C (+257°F) | • • • • • • • • • • • • • |
| 1      | 4    | 14.8 8.5 27  | • IPSKB  
          • IPEB  
          • Brass  | • 51°C (–60°F) to +125°C (+257°F) | • • • • • • • • • • • • • |
| 1.5    |       | 16.8 10.5 40 | • IPSKB  
          • IPEB  
          • Brass  | • 51°C (–60°F) to +125°C (+257°F) | • • • • • • • • • • • • • |

**Note:** These ODU specific connectors can transmit common data transmission protocols such as USB® 3.2 Gen 1x1, USB® 2.0, HDMI® 2.0, Ethernet, CAT 5 and CAT 6, but they are not USB®, HDMI®- and Ethernet standard connectors.
### ODU METAL CONNECTOR PORTFOLIO

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**CABLE ASSEMBLY SOLUTIONS**
Email us at: sales@odu-usa.com

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<table>
<thead>
<tr>
<th>ODU MINI-SNAP® L</th>
<th>ODU MINI-SNAP® K</th>
<th>ODU MINI-SNAP® B</th>
<th>ODU MINI-SNAP® S</th>
<th>ODU MINI-SNAP® F</th>
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<tbody>
<tr>
<td><strong>Coding</strong></td>
<td><strong>Sizes</strong></td>
<td><strong>No. of possible mechanical mating</strong></td>
<td><strong>Max. pin diameter (mm)</strong></td>
<td><strong>Max. cable (mm)</strong></td>
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<tr>
<td>ODU MINI-SNAP® L</td>
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<td>6.4 3.5 04</td>
<td>9 5.6 10</td>
<td>11.5 7.7 16</td>
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<td>13.0 7.0 16</td>
<td>16.0 9.0 26</td>
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<td>0 1 2 3</td>
<td>9.4 5.0 10</td>
<td>12.0 7.0 16</td>
<td>15.0 9.0 26</td>
</tr>
<tr>
<td>ODU MINI-SNAP® S</td>
<td>0 1 2 3</td>
<td>9.4 5.0 04</td>
<td>12.0 7.0 06</td>
<td>15.0 9.0 10</td>
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<tr>
<td>ODU MINI-SNAP® F</td>
<td>0 1 2 3</td>
<td>9.4 5.0 09</td>
<td>12.0 7.5 14</td>
<td>13.0 7.5 19</td>
</tr>
</tbody>
</table>

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**NEW!**

1. These ODU specific connectors can transmit common data transmission protocols such as USB® 3.1 Gen 1 + USB® 2.0 + Ethernet, but they are not USB®- and Ethernet- standard connectors.

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**PUSH-PULL L PRINCIPLE**

**PUSH-PULL F PRINCIPLE**

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<th>ODU MINI-SNAP® S SERIES</th>
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<tbody>
<tr>
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<td><strong>Insulator</strong></td>
<td><strong>Cable and groove</strong></td>
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<td>11.5 7.7 16</td>
</tr>
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<td>ODU MINI-SNAP® K</td>
<td>0 1 2 3 4</td>
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<td>ODU MINI-SNAP® F</td>
<td>0 1 2 3</td>
<td>9.4 5.0 09</td>
<td>12.0 7.5 14</td>
<td>13.0 7.5 19</td>
</tr>
</tbody>
</table>
### ODU PLASTIC CONNECTOR PORTFOLIO

#### ODU MEDI-SNAP® PUSH-PULL
- IP50 and IP64
- Autoclavable & fully sterilizable
- High voltage insert up to 1,000 VAC
- IEC 60601-1 compliant housings
- Right angle version available

<table>
<thead>
<tr>
<th>Coding</th>
<th>sera</th>
<th>No. of possible mechanical coding</th>
<th>Diameter plug (mm)</th>
<th>Max. cable diameter (mm)</th>
<th>Max. No. of contacts</th>
<th>Solder</th>
<th>Crimp</th>
<th>Pull</th>
<th>Length (mm)</th>
<th>Locking principle</th>
<th>Coding options</th>
<th>Transmission signals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>13.7</td>
<td>14</td>
<td>14</td>
<td>IP68</td>
<td>&gt;2,000</td>
<td>Push-Pull</td>
<td>Up to</td>
<td>IP64</td>
<td>Arrow marking, color coding</td>
<td>Signal, power, fluids (liquids and gases)</td>
<td>48 HR</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>18.5</td>
<td>9.2</td>
<td>26</td>
<td>IP68</td>
<td>&gt;2,000</td>
<td>Push-Pull</td>
<td>Up to</td>
<td>IP64</td>
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<td>Signal, power, fluids (liquids and gases)</td>
<td>48 HR</td>
</tr>
</tbody>
</table>

#### ODU MEDI-SNAP® BREAK-AWAY
- IP64 / IP67
- Autoclavable
- Break-Away for minimum of 2,000 mating cycles

<table>
<thead>
<tr>
<th>Coding</th>
<th>sera</th>
<th>No. of possible mechanical coding</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>15.8</td>
<td>5.5</td>
<td>14</td>
<td>IP68</td>
<td>5,000</td>
<td>Break-Away</td>
<td>Up to</td>
<td>IP67</td>
<td>Arrow marking</td>
<td>Signal, power, fluids (liquids and gases)</td>
<td>2X HV, 2X Signal interlock, 1X Ground/FMLB</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>18.3</td>
<td>11.5</td>
<td>26</td>
<td>IP68</td>
<td>2,000</td>
<td>Break-Away</td>
<td>Up to</td>
<td>IP64</td>
<td>Arrow marking</td>
<td>Signal, power, fluids (liquids and gases)</td>
<td>Contact proof according to IEC-60664-1</td>
</tr>
</tbody>
</table>

#### ODU MEDI-SNAP® HIGH-VOLTAGE
- Touch proof according to IEC-60664-1
- 2X HV, 2X Signal interlock, 1X Ground/FMLB
- Nominal voltage up to 1,000 VAC / 16 A
- Hot-plugging prevention

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>11.5 / 11.2</td>
<td>4.4</td>
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<td>IP67</td>
<td>IP50</td>
<td>&gt;1,000</td>
<td>Break-Away</td>
<td>Arrow marking</td>
<td>Signal, power, fluids (liquids and gases)</td>
<td>2X HV, 2X Signal interlock, 1X Ground/FMLB</td>
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#### ODU MINI-MED®
- Space saving design
- Pre-assembled solution
- Up to 1,000 mating cycles

<table>
<thead>
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</table>

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

<table>
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*Up to 2 MOPP / 2 MOOP*
ODU HYBRID CONNECTOR SOLUTIONS

**ESSENTIAL CONSIDERATIONS TO BE MADE PRIOR TO DETERMINING YOUR HYBRID INTERFACE**

**Electrical characteristics**
- General application characteristics
  - Description of the application
  - What types of transmissions are needed in your interface?
  - How many transmission types do you want to combine?
- Available space
- Environmental conditions (e.g., temperature, water, dust, chemicals)

**Physical characteristics**
- Electrical characteristics
  - Number of contacts
  - Protocols
  - Nominal voltage
  - Nominal current
- Pressure
  - 650 bar (9427 psi) operating receptacle
  - 500 bar (7251 psi) operating mated condition
  - 1,000 bar (14503 psi) burst
- Vibration
  - LV214 Severity Level 4 (20 g, 10 – 2000 Hz, 22 h)
  - Four-time multisinus per three-dimensional axis (16 g, 20 – 2000 Hz, 65 h per axis)
- Mating cycles
  - > 1 Million

**Fiber optic**
- < 1 dB typical @ 100,000 mating cycles single mode/multimode

**Environmental**
- Salt spray / fog, chemical resistance, UV, Arizona dust, radiation, sterilization

**Operating temperature**
- Up to 300 °C

**High speed data rate**
- USB® 3.2 Gen 1x1 – 5 GBit/s¹
- HDMI® 2.0 – 14.4 Gbit/s¹
- 10 Gbit Ethernet – 10 Gbit/s¹

**Environmental conditions**
- Salt spray / fog, chemical resistance, UV, Arizona dust, radiation, sterilization

**Contact density**
- 1 contact/mm²

**Smallest contact diameter**
- 0.3 mm

**Smallest circular connector diameter**
- 5 mm

**On driving test**
- Electric vehicle adapter

**Self finding solutions**
- ±/– 5 mm float (shield and tight)

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.

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**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.
CUSTOM COMPONENT OVERMOLD
(Custom Requirement)

POTTING AND ENVIRONMENTAL SEALING

CUSTOMIZED CONNECTOR SOLUTIONS

ODU CABLE ASSEMBLY SOLUTIONS & CONNECTORS FROM ONE SOURCE

OVERMOLDS WITH SILICONE, TPE, TPU & TPV

NON ODU CONNECTORS
• High-speed standard connectors such as: USB® 3.2 Gen 1x1, USB® 2.0, HDMI® 2.0 and Ethernet CAT 5
• Military and medical connectors
• Wire to board connectors

ODU TESTING & QUALITY
• In-process checking
• Data rate testing
• 100% final inspection
• Potting and environmental sealing
• IPC/WHMA-A-620
• Production possible in cleanroom in accordance with EN ISO 14644-1

ODU CABLE ASSEMBLY SOLUTIONS & CONNECTORS FROM ONE SOURCE

FLEX LAYER ASSEMBLY

CUSTOMIZED CONNECTOR SOLUTIONS

POTTING AND ENVIRONMENTAL SEALING

CUSTOM COMPONENT OVERMOLD
(Custom Requirement)

NON ODU CONNECTORS
• High-speed standard connectors such as: USB® 3.2 Gen 1x1, USB® 2.0, HDMI® 2.0 and Ethernet CAT 5
• Military and medical connectors
• Wire to board connectors

ODU TESTING & QUALITY
• In-process checking
• Data rate testing
• 100% final inspection
• Potting and environmental sealing
• IPC/WHMA-A-620
• Production possible in cleanroom in accordance with EN ISO 14644-1

REQUEST A QUOTE
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ASK OUR ENGINEERS
Email us at sales@odu-usa.com
ODU CABLE ASSEMBLY SERVICES
WORLDWIDE PRESENCE SERVING LOCAL MARKETS

ODU NORTH AMERICA CABLE ASSEMBLY FACILITY

VALUE ADDED SERVICES
The ODU North America facility specializes in rapid prototyping and projects ranging from medium to large sized volumes.

ADVANCED CUSTOMER BENEFITS
• One-to-one technical support
• Global & regional footprint
• Rapid product development
• Vertically integrated connector manufacturer

ODU COMPLETE CABLE ASSEMBLY SOLUTIONS ACROSS MULTIPLE MARKETS:

MEDICAL

MILITARY AND SECURITY

TEST AND MEASUREMENT

AUTOMOTIVE

ODU SILICONE CABLE ASSEMBLY SOLUTIONS

CUSTOMER BENEFITS
• Up to 500 autoclave cycles
• Approved LSR and HTV processes globally available
• Tested for medical technology use
• Individual laser labeling possible
• Various standard overmolding inserts available
• Halogen and latex-free

SECONDARY SILICONE SURFACE TREATMENT – OPTIONAL
• Up to 500 autoclave cycles
• Approved LSR and HTV processes globally available
• Tested for medical technology use

AUTOCLAVABILITY

BEND PROTECTION AND SMOOTH TRANSITIONING OVERMOLDING

• Approved LSR and HTV processes globally available
• Tested for medical technology use

ODU NORTH AMERICA CAPABILITIES
• Environmentally controlled presurized workroom
• Dedicated silicone overmold work area
• ARBURG-ALLROUNDER 275 V:
  • Vertical free-space system
  • Clamping force: 28 tones
  • Injection unit: 1.4 oz, 2.3 oz

ODU INTERNATIONAL CAPABILITIES
• Cleanroom EN ISO 14644-1
• ISO 13485
• Tool shop customized molds
• Electroplating shop: The turned or stamped contact can be coated based on customer requirements
• On-site laboratory
• On-site technology test center

TEST AND VALIDATION
ISO 10993-5 CERTIFIED
• Cytotoxicity test according to DIN EN ISO 10993-5
• Management system certified according to ISO 9001
• Documentation of tests available
• High-voltage and insulation tests
• Functional and component tests for cable systems
• Runtime measurement
• Tensile strength tests
• Torsional and bending fatigue tests
• Leakage tests for molded components

* Available upon request

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A PERFECT ALLIANCE.

ODU GROUP WORLDWIDE

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