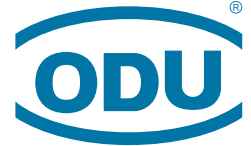


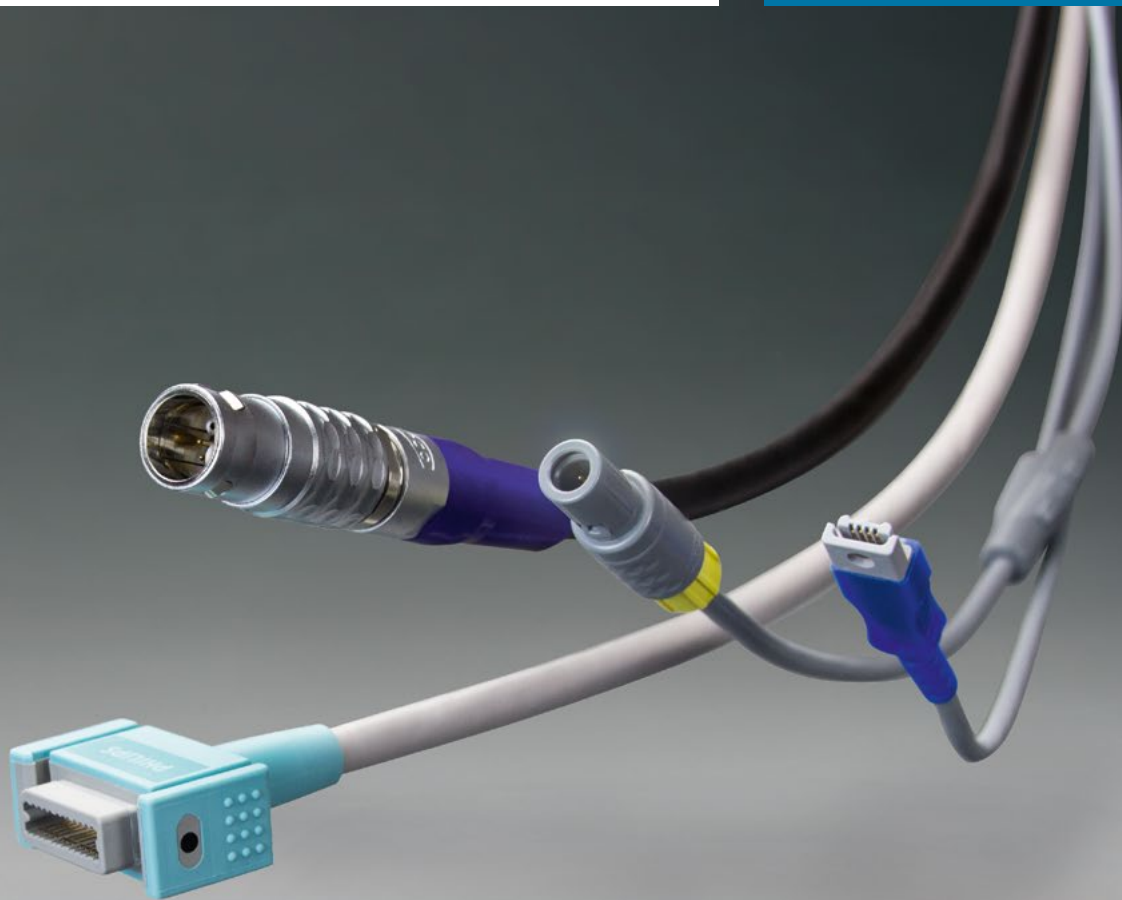
A PERFECT ALLIANCE.



# CABLE ASSEMBLY

Complete systems from one source.

INDIVIDUAL  
SOLUTIONS



# A PERFECT ALLIANCE.



A PERFECT ALLIANCE.

## ODU GROUP OVERVIEW

- More than 75 years of experience in connector technology
- A turnover of 170 million Euro
- Over 1,900 employees worldwide
- 9 sales subsidiaries in China, Denmark, France, Germany, Italy, Japan, 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

As of February 2018

## CERTIFIED QUALITY

- DIN EN ISO 9001
- ISO/TS 16949
- DIN EN ISO 14001
- ISO 13485
- Wide range of UL, CSA, VG and DVA licenses
- UL certified cable assembly

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

All dimensions are in mm. Some figures are for illustrative purposes only. Subject to change without notice. Errors and omissions excepted. We reserve the right to change our products and their technical specifications at any time in the interest of technical improvement. This publication supersedes all prior publications. This publication is also available as a PDF file that can be downloaded from [www.odu-connectors.com](http://www.odu-connectors.com).



[www.odu-connectors.com](http://www.odu-connectors.com)

## CUSTOMER-SPECIFIC SOLUTIONS

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-specific requirements regarding design, functionality, cost and exclusivity
- Custom connector solutions derived from standard products
- One-to-one local expertise and fair, friendly consulting
- Quick prototyping and production turnaround

## INDIVIDUAL CABLE ASSEMBLY

### ODU – Your reliable partner for premium connectors and first-class cable assemblies

Insufficient experience in assembling connectors and cables can result in an end product with impaired system function. This is a problem that many assemblers face due to a lack of connector experience. ODU has over 70 years of experience in developing connectors that stand for the highest quality on the market and also sound experience in cable assembly.

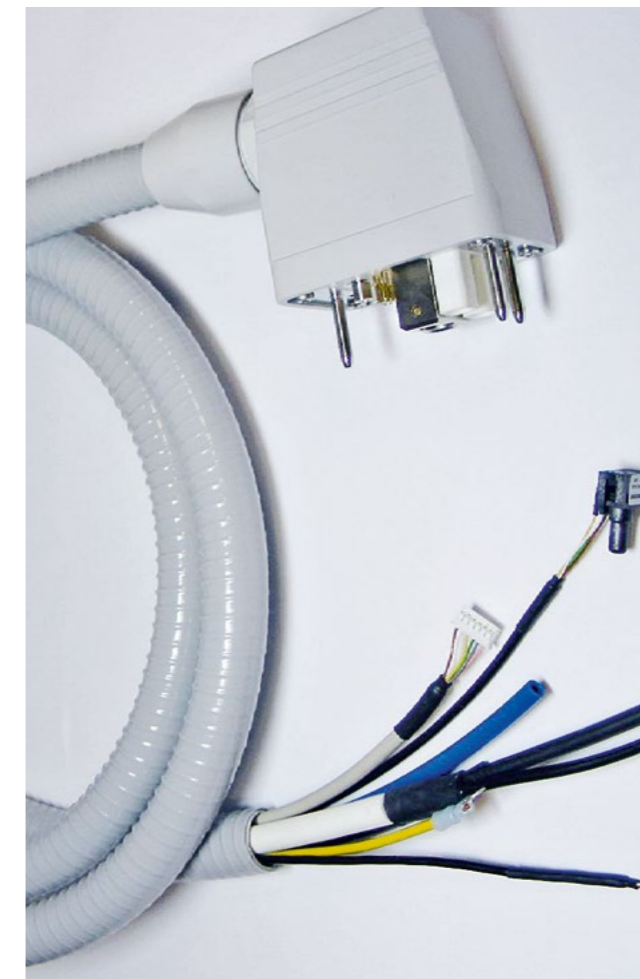
We therefore offer our customers pre-assembled component solutions. Our high levels of expertise in development and manufacturing teamed with the most modern manufacturing facilities in Europe, China and the USA allow us to offer our customers tested assemblies both locally and globally in combination with logistics services. We can assemble connectors for high signal transfer rates according to customer specifications based on well-founded test results from our own electromechanical laboratory. Naturally also with the corresponding test certificates! Thanks to our excellent supplier management system, we guarantee quick and precise delivery with consistently high quality from the low to high volume projects within the group.

#### WE OFFER DIVERSE PRODUCT TECHNOLOGIES

- Freely assembled connectors
- Assembly with heat shrink parts
- Extruded assembly
- Solder and crimp technology with accompanying check
- Combined solutions

#### VALUE ADDED SERVICES

- 100% final inspection
- Production possible in cleanroom in accordance with EN ISO 14644-1
- Extrusion in vacuum procedure
- Extrusion in high pressure-temperature procedure
- EMC-compatible assembly
- Customer-specific labelling
- Production possible in accordance with UL (File: E333666)



# PERFECT INTERACTION

Everyone talks about functioning assemblies – we make them!

As manufacturers of a diverse range of high-end contacts, circular and rectangular connectors and also customer- and application-specific connectors, absolute quality and reliability are core values in our corporate and product philosophy. Our cable assembly department continuously improves our product technology and testing methods to ensure high quality results. The result is always perfect interaction between cable and connector.

We offer cost effective versatile modular connector solutions that can transfer data, power, signal, high frequency, light and compressed air.



## ELECTRICAL CONTACTS (ODU SPRINGTAC® / ODU LAMTAC®)

Contact technology forms the backbone of our company. We deliver optimal transmission quality and high current carrying capacity connector solutions. Our innovative product development responds consistently to all the market needs and trends.



## CIRCULAR CONNECTORS WITH PUSH-PULL AND BREAK-AWAY LOCKING

Ten series in six sizes from 1 to 40 contact positions satisfy every demand. Certified to MIL, UL and VDE with 5,000 mating cycles and a compact size, and suitable for use with robots.



## MODULAR CONNECTORS

ODU's modular connectors are designed for uncompromising quality, a high number of mating cycles, extreme contact reliability and unlimited flexibility. We offer cost effective versatile modular connector solutions that can transfer data, power, signal, high frequency, light and compressed air.



## HEAVY-DUTY CONNECTORS

ODU's heavy duty connectors are robust and rugged solutions that prove the extended experience that we have in contact technology, circular and rectangular connectors, manufacturing & surface technology.

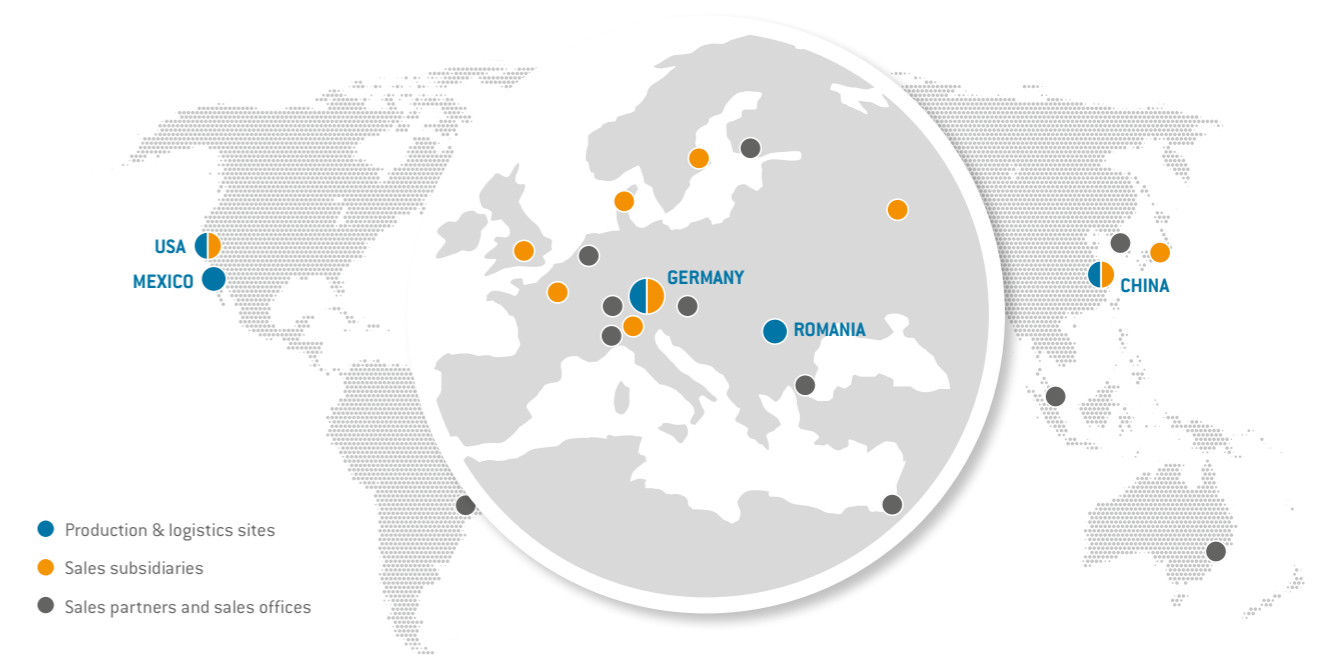
# ODU – CABLE ASSEMBLY INTEGRATED SOLUTIONS

## Everything from one source

With assembly facilities around the world, ODU offers its customers a service that combines high quality connectors with customer-specific cable assembly requirements. Our sound knowledge of our own connectors combined with ultra modern production facilities and the know-how to process products from other sources offers the market a substantial advantage.

Locations in China and the USA handle international logistics while the sites in Germany and Romania serve the European market. Short delivery and procurement channels and the use of local manufacturers reduce the manufacturing times.

**ODU – Your partner for connectors and first-class assemblies!**



## LOCATION MÜHLDFORD – GERMANY

### MANUFACTURING CAPABILITIES

- Prototype centre
- Special assemblies (potting, pressure test)
- Laboratory manufacturing for new technologies
- Small volume production

### VALUE ADDED SERVICES

The development area and test laboratory in Mühlldorf make the location ideal for highly complex manufacturing. This includes assemblies for underwater use which are then tested in our pressure chamber at up to 100 bar. We also provide cable assembly solutions for medical applications that involve wearable or human implant applications. A camera system ensures full documentation of this production step.



Assembling a patient cable set that documents all solder points by using a camera system. The complete data set is then given to the end customer along with the cable.

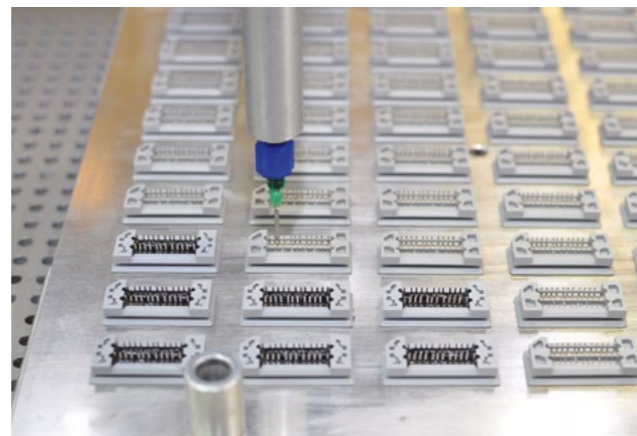
## LOCATION SIBIU – ROMANIA

### MANUFACTURING CAPABILITIES

- Manufacturing site Europe
- Assemblies, potting of components and connectors
- Medium and large series
- Assembly of connectors for large series

### VALUE ADDED SERVICES

Quality control ensures special attention to overall manufacturing process. The Romanian plant has automatic testing machines that conduct a visual check of the workpieces in a closed system to ensure that only perfect parts are sent out. Thus, complete quality assurance is guaranteed.



Here the pre-potting is an important step that has a major influence on the extrusion result. ODU Romania's many years of experience ensure consistently good results no matter how complex the components are.

## LOCATION SHANGHAI – CHINA

### MANUFACTURING CAPABILITIES

- Manufacturing site Asia
- Assemblies, potting of components and connectors
- Medium and large series
- Assembly of connectors for large series

### VALUE ADDED SERVICES

Our factory in China has extensive know-how and connector extrusion was further perfected here. Special materials for medical technology are combined with our connectors to form a system. With various sizes of presses, we can flexibly adapt both the size and the unit weight to fit the market requirements.



Extrusion of assembled ODU MEDI-SNAP connectors in a master mould with modular interchangeable inserts. Here it is possible to react quickly and flexibly to the widest range of cable diameters that maintain a stable manufacturing process.

## LOCATION CAMARILLO – USA

### MANUFACTURING CAPABILITIES

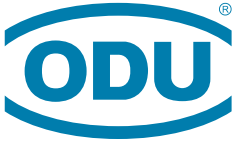
- Manufacturing site America
- Assemblies, potting of components and connectors
- ITAR-authorized operation (International Traffic in Arms Regulation)
- Research and development of moulds for thermoplastic extrusion

### VALUE ADDED SERVICES

The ODU-USA facility specializes in rapid prototyping development and projects ranging from low to mid sized volumes. The prototype tools are manufactured on a high-precision milling centre using direct data transfer from the CAD system. A 3D printer supports the sales team by quickly providing “rapid prototyping” samples.

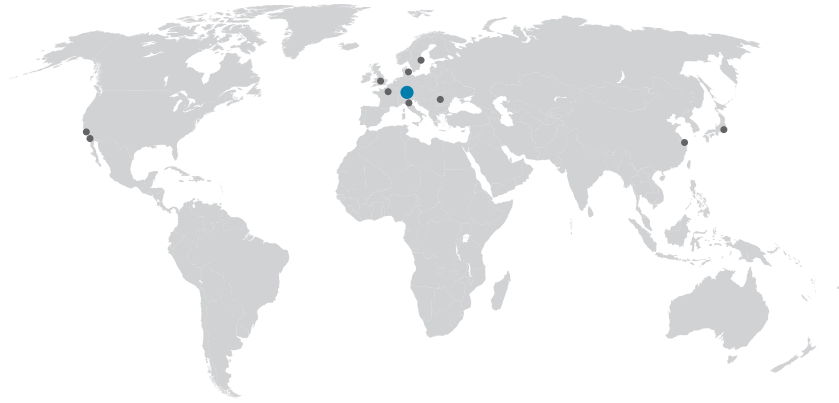


Here we show our milling unit, which is used to produce prototype tools and moulds for customer-specific applications. The simple configuration allows rapid implementation of small series with up to 2,000 units.



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## ODU GROUP WORLDWIDE



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#### Further information and specialized representatives can be found at:

[www.odu-connectors.com/contact](http://www.odu-connectors.com/contact)

### PRODUCTION AND LOGISTICS SITES

|                |   |
|----------------|---|
| <b>Germany</b> | Otto Dunkel GmbH                                |
| <b>China</b>   | ODU (Shanghai) Connectors Manufacturing Co. LTD |
| <b>Mexico</b>  | ODU Mexico Manufacturing S.R.L. de C.V.         |
| <b>Romania</b> | ODU Romania Manufacturing S.R.L.                |
| <b>USA</b>     | ODU-USA, Inc.<br>ODU North American Logistics   |



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CABLE ASSEMBLY