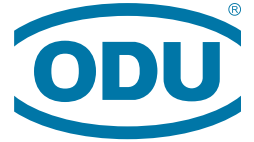


A PERFECT ALLIANCE.

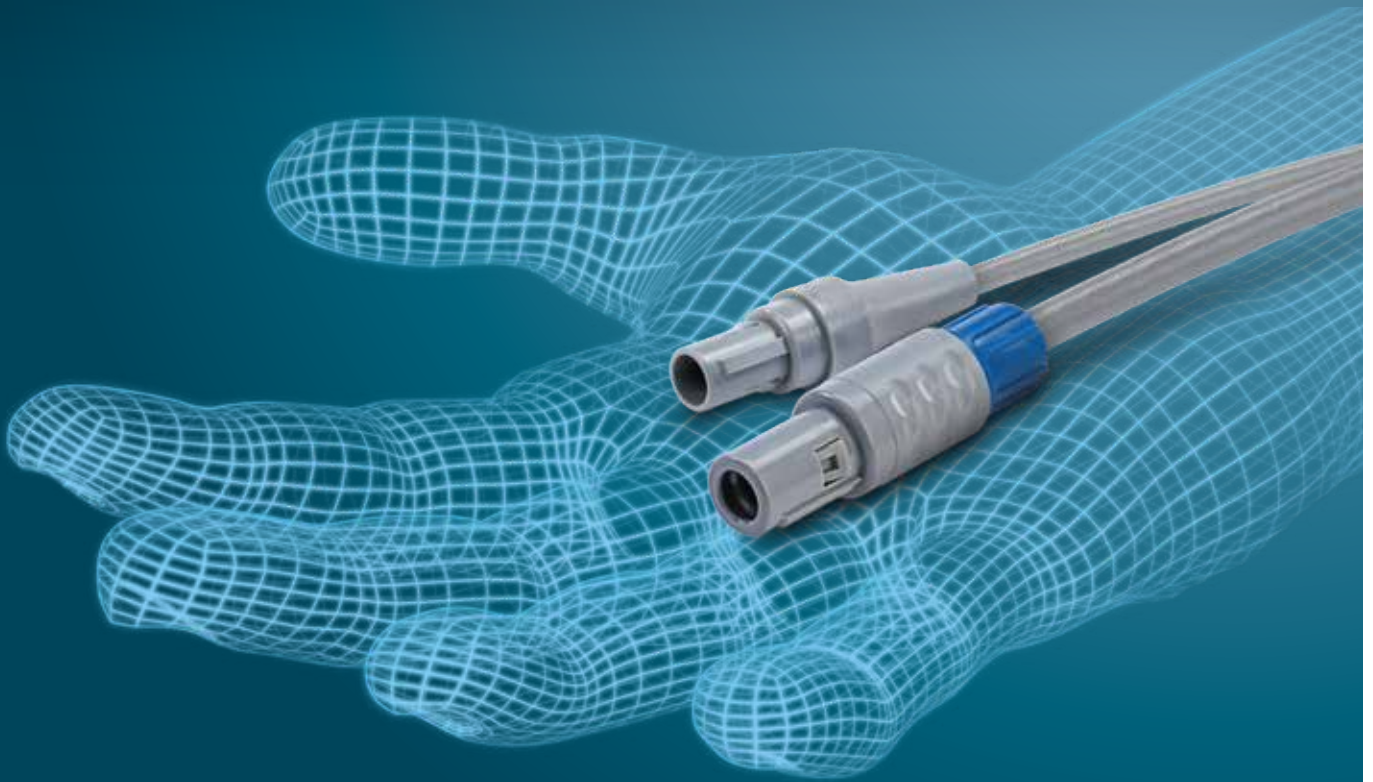


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# INTUITIVE HANDLING – ROBUST DESIGN

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This plastic connector is tailored to your specific needs  
in your application: ODU MEDI-SNAP®.



SUITABLE FOR:



MEDICAL

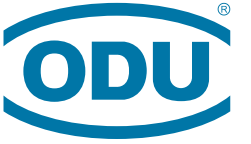


INDUSTRIAL



TEST AND MEASUREMENT





A PERFECT ALLIANCE.



INDUSTRIAL



MEDICAL



TEST AND MEASUREMENT

## SPECIALISTS FOR PLASTIC CONNECTORS

# PLASTIC – SUITABLE FOR MANY APPLICATION AREAS

In highly sophisticated sectors such as medical technology, industrial electronics as well as test and measurement technology, the requirements for technical components are high. Light weight as well as the most effective use of space is essential, particularly for mobile devices or applications with strict space constraints. For this reason, plastic in particular is becoming an increasingly important material for connectors. The connection should be light in weight, simultaneously economic and with maximum simplicity in handling. Plastic connectors fulfill these requirements, and they are also extremely flexible, adapting to a manifold of circumstantial challenges. The coloration of the plastic enables the connectors' color to be perfectly adapted to the ambient conditions or to be optically encoded individually. The use of plastics with strong chemical resistance such as PEI or PSU thereby ensures high functional and operational reliability in adverse environmental conditions where autoclaving and other sterilization processes pose constant challenges.



# CONNECTIONS THAT LIVE UP TO ANY REQUIREMENT

ODU's plastic connectors are proven in a manifold of application areas. Either as overmolded system solution ensuring plug and play functionality or attachable connector enabling flexible assembly – the ODU plastic connector portfolio offers the right connection for every application.



	ODU MEDI-SNAP® attachable	ODU MEDI-SNAP® overmolded
Mating cycles	> 2,000	> 2,000
Locking principle	Push-Pull	Break-Away
Coding options	Pin and groove coding Color coding	Pin and groove coding
Max. number of poles*	26	16
Sizes	1/2	1/2 (new)
Shielding	+ (shielding tunnel)	
Signal transmission	+	+
Power transmission	+	+ (new)
Liquids & Gases	+	upon request
IP tightness in mated condition	IP50/IP64	IP64/IP67

\* Other configurations upon request

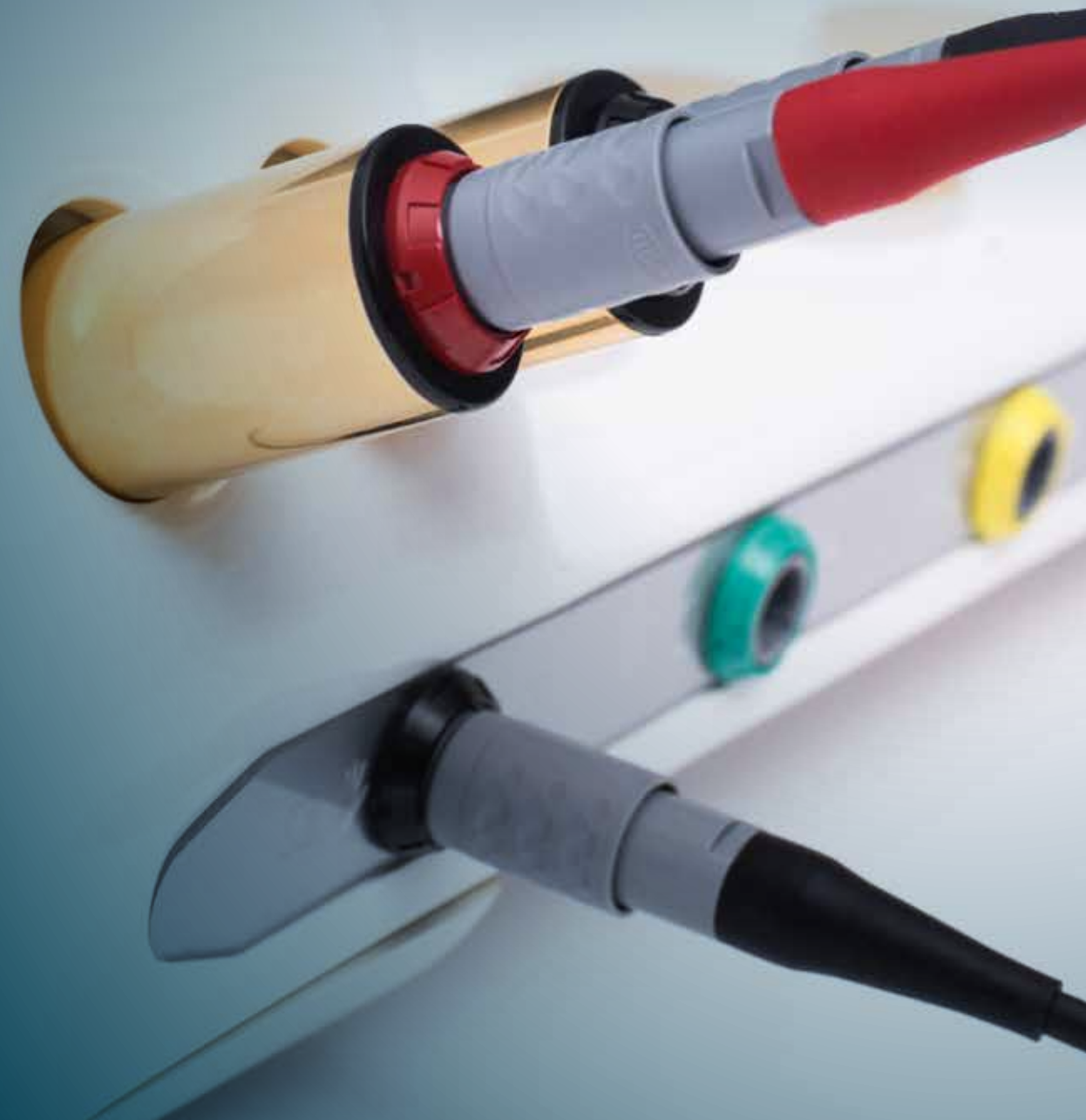


	ODU MINI-SNAP® PC attachable	ODU MINI-MED® overmolded
Mating cycles	> 5,000	> 1,000
Locking principle	Push-Pull	Break-Away
Coding options	Half-shell coding	Pin and groove coding
Max. number of poles*	27	6
Sizes	1/2/3	0
Shielding	+	
Signal transmission	+	+
Power transmission	upon request	upon request
Liquids & Gases	upon request	
IP tightness in mated condition	IP50/IP67	IP67

\* Other configurations upon request

# ODU MEDI-SNAP®: INTUITIVE IN HANDLING – TAILORED FOR YOUR APPLICATION

The ODU MEDI-SNAP combines distinctive coding options with over 2,000 mating cycles. The efficient plastic connector is available both with user-friendly Push-Pull locking and the easy-to-release Break-Away function, which comes as a premolded plug & play solution. Its space-saving product design enables top performance even in the smallest available construction space. Further due to its plastic housing, this connector is up to 75% lighter than comparable metal products.



## 01 EASY HANDLING

ODU MEDI-SNAP provides maximum convenience. The operation is straightforward and reliable, providing self-explanatory connection technology for every user.

- + Reliable mating via color coding and audible click
- + Easy mating via quick-connection technology

## 02 EFFICIENCY

From the production to the installation and ongoing operation – the ODU MEDI-SNAP represents a highly economical solution for your area of application.

- + 75% lighter than comparable metal connectors
- + Space-saving product design
- + Quick installation

## 03 CUSTOMIZED SOLUTION

The wide variety of different versions and the possibility of adjustments according to customer specifications enable the ODU MEDI-SNAP to be individualized for the most diverse areas of application.

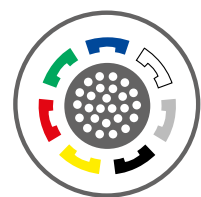
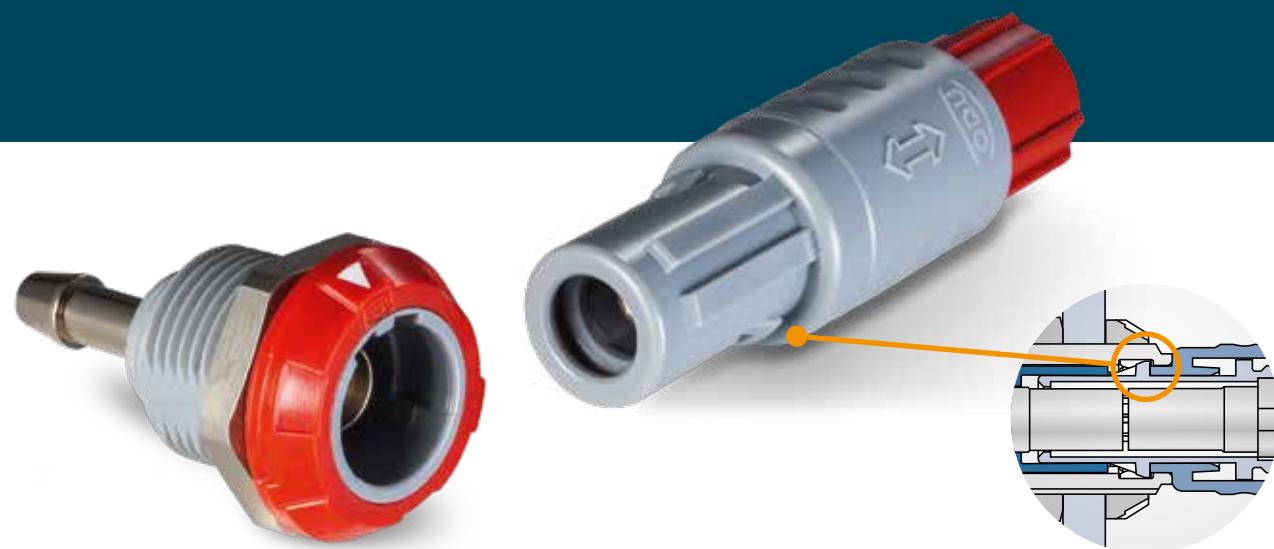
- + Premolded solutions for immediate use
- + Large selection of flexible, attachable connectors
- + Chemically and thermally resistant versions for use in harsh environments

## THE PUSH-PULL VERSIONS

The ODU MEDI-SNAP with Push-Pull locking was developed for connections that could be subjected to high mechanical stress.

An automatic locking mechanism becomes effective when connectors are mated and thereby reliably prevents unwanted release – especially when pulling on the cable. Unmating is only possible by pulling back the outer sleeve intentionally – which is likewise easy and quick.

- + Reliable **quick-attachement technology**
- + **Vibration-resistant** locking



### CODINGS GIVE YOU THE RIGHT ORIENTATION

Easy. Intuitive. Clear.

- 7 optical coding options (color coding, arrow marking)
- 6 mechanical coding options (pin and groove keying)

## ODU MEDI-SNAP® – GREATER FLEXIBILITY VIA ATTACHABLE SOLUTIONS

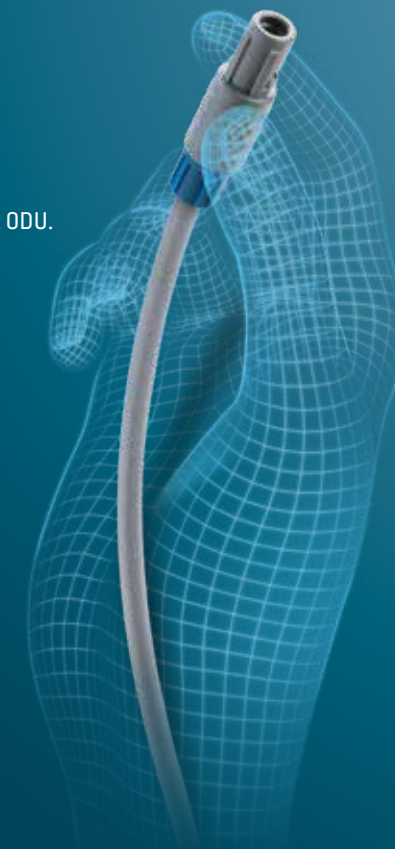
YOUR REQUIREMENT – OUR CHALLENGE: competent, comprehensive consultation at ODU.

- 1 Selection of the suitable **connector combination**
- 2 Coordinated **cable definition** according to your wishes
- 3 Customized **cable assembly**

We will gladly advise you and adjust the connector as well as cable to your needs.



THERE IS STILL MORE TO DISCOVER  
ABOUT THE ODU MEDI-SNAP ONLINE  
[www.odu-connectors.com/medi-snap](http://www.odu-connectors.com/medi-snap)



### TRANSMISSION OF VARIOUS MEDIA

From the transmission of signals and power all the way to air, the ODU MEDI-SNAP portfolio enables the transmission of a wide variety of media. Even the combined transmission of several media in just one interface is possible.

- Electrical: Signals and power (up to 26 signals and 230 V)
- Physical: Fluids and gases



### SPACE-SAVING PRODUCT DESIGN

- Small connector style with small diameters
- High pin density
- Up to 50% less required construction height also due to right-angled versions



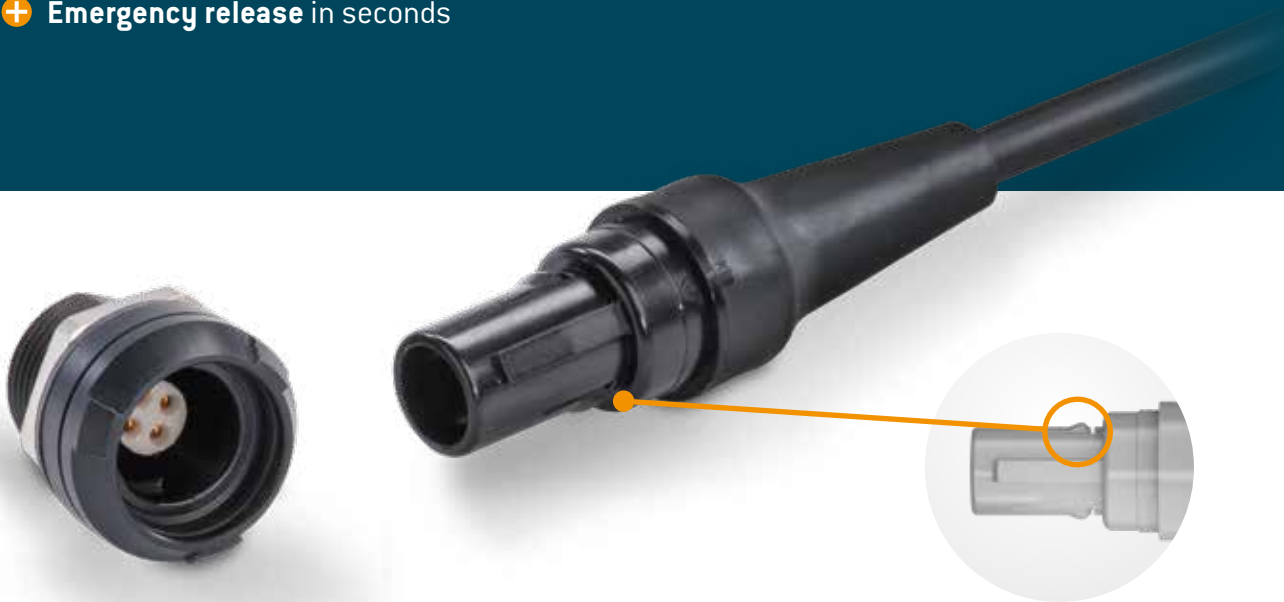


# THE BREAK-AWAY VERSIONS

The ODU MEDI-SNAP with Break-Away function was developed for connections that need to be mated or unmated in seconds.

One pull on the cable is enough to unmate the connection if necessary. If the cable is slightly pulled, then the connector is held in place via the snap locks. When a specific pull force is exceeded, the snap-in connection is unmated.

- + Ergonomic mating through **low mating and unmating forces**
- + **Emergency release** in seconds



## RUGGEDNESS

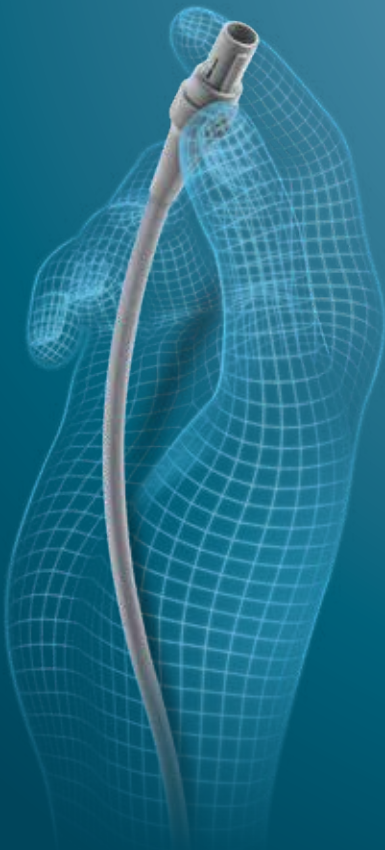
The ODU MEDI-SNAP Break-Away connectors are adaptable to various environmental conditions:

- Protection against dust ingress as well as water ingress in the case of temporary immersion (IP67)
- Resistance to aggressive chemicals as well as stress caused by sterilization processes

# ODU MEDI-SNAP® – GREATER CONVENIENCE VIA OVERMOLDED PLUG & PLAY SYSTEM SOLUTIONS

YOU BENEFIT HERE FROM USE OF THE SYSTEM.

- + ODU defines connector as well as cable in advance and delivers the complete assembly according to your specification. This provides you with ODU quality from A to Z. Immediately ready for use.



## TOP EFFICIENCY & QUALITY

ODU's in-house assembly service makes the overmolded versions particularly efficient. Quality without compromise is ensured by 100% electric tests. You get a comprehensive solution with hardly any installation requirements.

Benefit from our expertise in assembly.

- One contact person for the complete system
- Many years of expertise in assembly
- The possibility of flexibly assembled connections as well as application-specific individual manufacturing
- State-of-the-art manufacturing facilities at all ODU production locations





## ROBUST IN DESIGN – INTUITIVE IN HANDLING

Due to its high chemical resistance and complete sterilizability, the ODU MEDI-SNAP with plastic housing meets the high requirements of medical technology.

### YOUR BENEFITS

- + Quick mating thanks to Push-Pull locking
- + Easy-to-release Break-Away function
- + Space-saving product design
- + Easy to use with surgical gloves

## SIGNAL TRANSMISSION FOR HORSE INHALATORS

In this inhalator for lung treatment of horses, the ODU MEDI-SNAP with Break-Away function connects the humidifying device with the control unit.

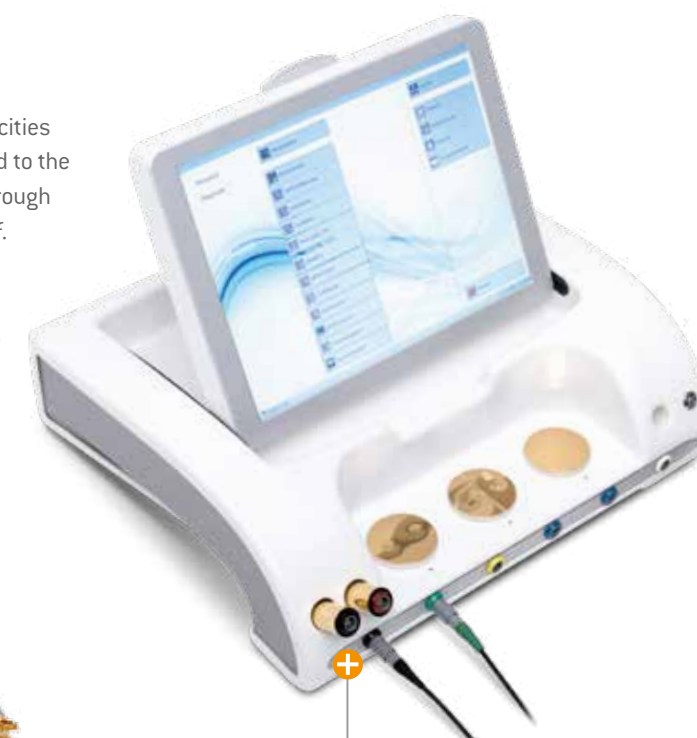
- + **Plug & play solution** for immediate use
- + **Intuitive handling** due to customer-specific arrow coding
- + **Break-Away function** for emergency release



## SIGNAL TRANSMISSION IN BIORESONANCE DEVICES

Through the bioresonance method, the self-healing capacities of the patient can be stimulated. The patient is connected to the device via electrodes. The signal transmission occurs through several ODU MEDI-SNAP connectors with cable bend relief.

- + Intuitive handling via various color codings
- + Quick and reliable mating with proven Push-Pull locking
- + Autoclavable connection





## SUCCESS STORIES



INDUSTRIAL

### READY FOR IMMEDIATE USE – INTUITIVE IN HANDLING

This plastic connector is ready to use in no time, thanks to its minimal installation requirements and ready-made overmolded versions. Its secure Push-Pull locking protects the connection from being released unintentionally.

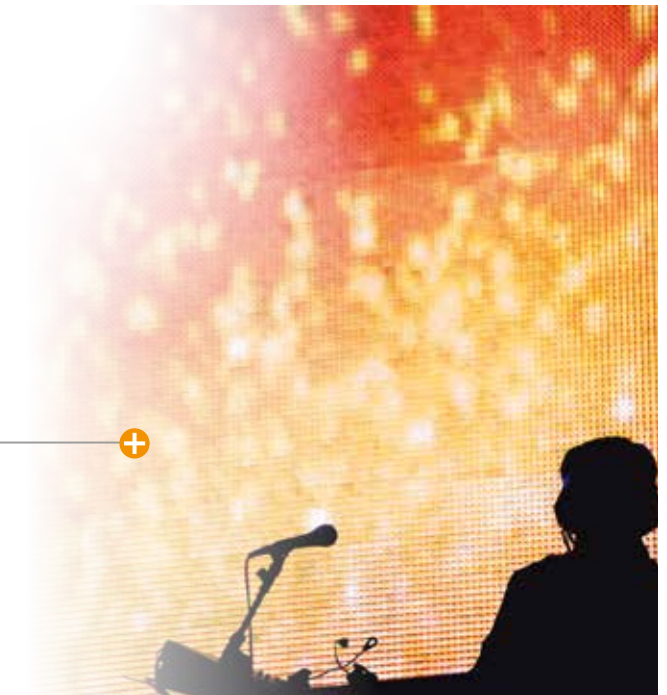
#### YOUR BENEFITS

- + UL certified versions
- + 75% lighter than comparable metal connectors
- + Space-saving product design

### POWER SUPPLY OF LED SCREENS

The ODU MEDI-SNAP transmits power for LED screens used on large stages and grandstands. Its Push-Pull connector technology enables quick installation of the screens while the connector is securely locked in place. Reliable power transmission is guaranteed at all times.

- + Voltage transmission up to 230 V
- + Suitable for outdoor applications



### POWER SUPPLY IN MOBILE SECURITY SYSTEMS

In this system, the ODU MEDI-SNAP serves multiple purposes: It is responsible for power and signal transmission for cameras and sensors. Particularly because it is a mobile device, the low weight is a decisive benefit of the ODU MEDI-SNAP.

- + Quick mating via Push-Pull locking
- + Long service life due to the rugged product design







TEST AND MEASUREMENT

# RELIABLE IN THE FIELD – TAILORED FOR YOUR APPLICATION

You can fully rely on the ODU MEDI-SNAP. Its secure Push-Pull locking protects the connection from being released unintentionally. Due to its multiple coding options, secure mating is ensured at all times.



## YOUR BENEFITS

- + Minimal installation and maintenance requirements
- + 75% lighter than comparable metal connectors
- + Space-saving product design

## POWER SUPPLY OF UNIVERSAL MEASURING DEVICES

This measuring amplifier for universal use is supplied with a voltage of up to 30 volts by the ODU MEDI-SNAP. Due to angular PCB contacts and rear mounting feature of the receptacle, the size of the tool could be reduced to the minimum, making the product very easy to handle.

- + Reliability **beyond 2,000 mating cycles**
- + User-friendly **Push-Pull locking**



## SIGNAL TRANSMISSION IN POWER MEASURING DEVICES

This power measuring device collects and records a range of parameters including current, voltage and power along with the respective network quality values. ODU MEDI-SNAP connectors, together with a high quality overmolded solution, form a particularly efficient interface between the current probes and the device itself.

- + **High economic** efficiency, thanks to premolded plug & play solutions
- + Its light weight make it **ideal for mobile use**





# INGENIOUS IDEAS PERFECT SOLUTIONS

ODU'S PRODUCT PORTFOLIO.

+ Versatile connector solutions for transmission of power, signals, data, or media – ODU never fails to offer the right interface when quality and absolute reliability are the top priorities.



## COMPACT MODULAR CONNECTOR SOLUTIONS

- Application-specific hybrid interface
- For manual mating and automatic docking
- The highest packing density
- Flexible modular construction
- Multitude of data transmission modules
- Variety of locking options available
- For the transmission of signals, power, high current, high voltage, coax, high-speed data, fiber optics and other media such as air or fluid.
- Mating cycles scalable as required from 10,000 to over 100,000 (1 million)



## PUSH-PULL CIRCULAR CONNECTORS

- Circular connector series in robust metal or plastic housing
- Contacts for soldering, crimping and PCB termination
- Optional selectable Push-Pull locking ensuring a secure connection at all times as well as easy to release Break-Away function
- 2 up to 55 contacts
- IP 50 to IP 69
- Autoclavable for medical applications
- Hybrid inserts for combined transmission



## ELECTRICAL CONTACTS

- Versatile connector technologies
- Outstanding reliability, lifetime and durability
- Up to 1 million mating cycles
- Current-carrying capacity of up to 2,400 amperes and more
- Rugged contact systems, suitable even for harsh environments
- Economical solutions for automatic processing



## HEAVY-DUTY & DOCKING AND ROBOTIC CONNECTOR SOLUTIONS

- Extremely durable even under extreme / harsh environments
- Interference-free and secure connection, even under vibration
- Up to 500 A (higher currents upon request)
- High contact security due to the springwire technology
- High pin density due to a minimum contact diameter
- Low contact resistance



## APPLICATION AND CUSTOMER-SPECIFIC SOLUTIONS

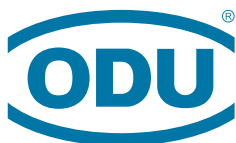
- Contacts, connectors and assemblies for the highest technical requirements as well as special applications
- First-class implementation expertise
- High level of vertical manufacturing – all competences and key technologies under one roof
- Expert advice based on mutual partnership
- Fast development and production



## CABLE ASSEMBLY

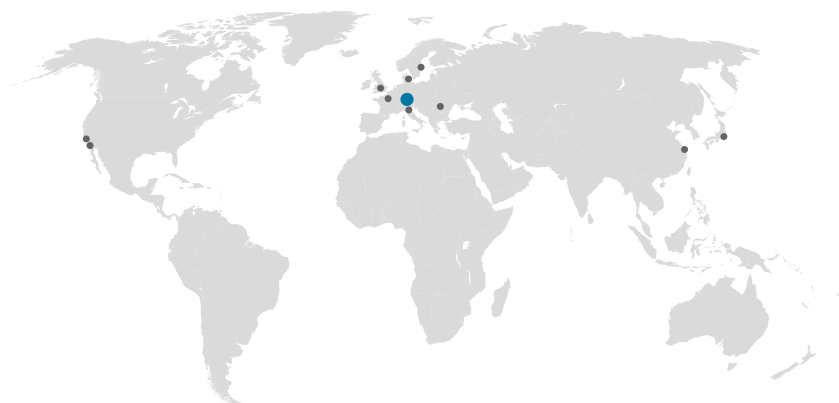
- Complete systems from a single source based on years of assembly expertise
- State-of-the-art production facilities with 100% end testing, high-voltage testing, component testing and pressure testing up to 100 bar
- Cleanroom production
- Hot-melt and high-pressure injection molding
- Customer-specific labeling
- Rapid prototyping of samples





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## ODU GROUP WORLDWIDE



### HEADQUARTERS

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

Further information and specialized  
representatives can be found at:

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

### PRODUCTION SITES

**Germany** Otto Dunkel GmbH

**China** ODU (Shanghai) Connectors Manufacturing Co. LTD

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

**Romania** ODU Romania Manufacturing S.R.L.

**USA** ODU-USA, Inc.



Simply scan the QR code  
to download the entire brochure.

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We reserve the right to modify product and technical data.

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