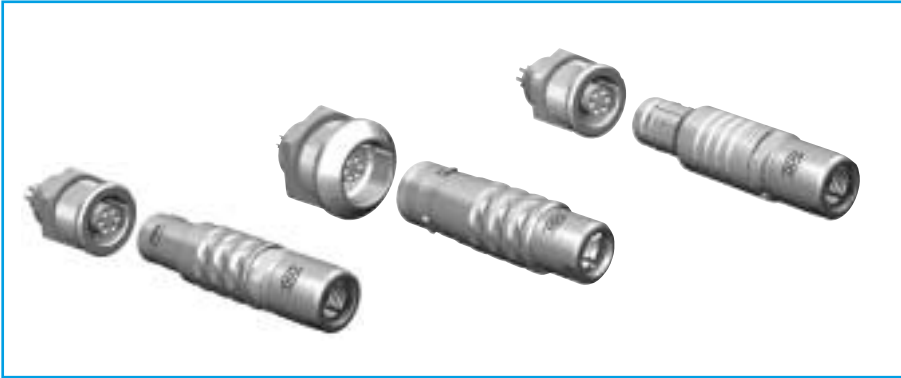


# Product Description



## The ODU-MINI-SNAP family of Miniature Cylindrical Connectors features Push-Pull-Locking

Cylindrical Connectors are generally available with several locking mechanisms.

**The most frequently used are:**

- Threaded-Locking Sleeve
- Bayonet-Locking
- Push-Pull-Locking

### Push-Pull-Connectors have a very simple locking mechanism:

- As the plug is pushed into the receptacle, locking fingers on the plug snap into the receptacle creating a reliable connection between plug and receptacle.
- Pulling on the cable or the rear of plug causes the locking fingers to grab harder and a separation of plug and receptacle is almost impossible. Pulling on the outer plug housing causes the locking fingers to retract and the plug and receptacle separate easily.

### The Advantages of Push-Pull-Connectors:

- Quick and easy mating and demating
- Quick and easy separating
- Easy blind mating in difficult-to-reach places
- Less panel space required
- Definite and secure locking condition
- Less mating required
- Robotic mating and demating possible
- Easy cleaning of housing possible

### Important Applications for Push-Pull Connectors:

- Medical Electronics
- Test and Laboratory
- Measurement Instrumentation
- Data and Telecom Systems
- Audio and Video Applications
- Military and Aerospace
- Industrial Controls
- Nuclear Technology

# Applications



Medical



Test and Measurement

Consumer electronics



Telecommunication

Industrial and Automation

## Important Issues At A Glance:

- The series is certified acc. **UL** and VDE.
- **Connector with metal shells available in 8 sizes**  
 Outside diameter between 6,5 mm and 42 mm  
 Number of contact positions: 1 to 40 position, mixed insert arrangements.
- **Plugs and inline receptacles** are offered with solder and crimp termination.  
**Receptacles** are available for solder, crimp, and PCB termination.

- **Applications**

	Insulation Body Material PBT	Material PEEK	Contact Material Ms
General Application requirements (-40 °C +120 °C)	●	●	●
Connectors which, are autoclavable (+134 °C, see page 136)		●	●

- **Termination Style**

– Crimp Termination	●	● *
– Solder Termination	●	●
– Printed Circuit Board (PCB) Termination	●	●

\* Crimp-Clip Contact

- **Environmental Protection Classification**

IP 50 and IP 68 are available

**➔ What we don't have yet, we can build for you!**

## Compatibility

ODU MINI-SNAP compatibility with our connectors is defined as:

### ➔ Mounting and mating compatible

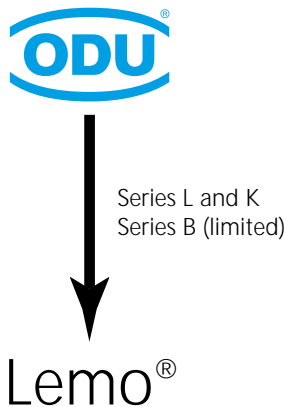
#### What does that mean for ODU®?

Most of our connectors are mounting and mating compatible with current products offered by Lemo®.

**We can only provide a guarantee against reference parts.**

**Mating compatible** implies that connectors from ODU® and Lemo® can be mated and will function electrically and mechanically. This is especially important if the user switches from one supplier to another during ongoing production.

**Mounting compatible** means that the mechanical mounting parameters from ODU® and Lemo® are identical. The connectors can be mounted into the same panel cutout or into the same PCB layout.



Most of the ODU MINI-SNAP connectors can be mated with products made by Lemo®.

➔ **There's no licence contract or cooperation with Lemo™**

ODU Series L compatible to  
 ODU Series K compatible to  
 ODU Series B limited compatible to

Lemo® Series B  
 Lemo® Series K  
 Lemo® Series B

### The different ODU Series

	Locking Principle	IP (see page 126)
Series L	LP with Jaws (see page 12)	IP 50
Series K	LP with Jaws (see page 36)	IP 68
Series B	FP with Locking Fingers (see page 52)	IP 50 and 68

**Locking:** The L and K series are easier to mate and demate than the B series

**IP:** The B series will reach IP 68 with smaller dimensions than the K series (by using same inserts).

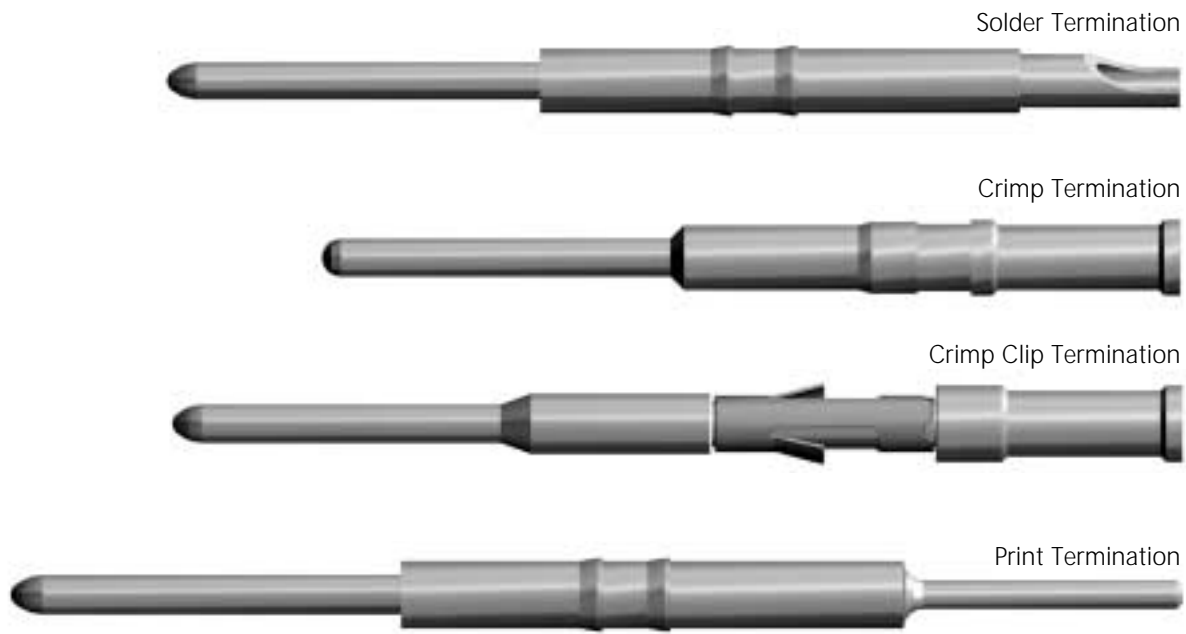
## Turned contact

Turned contacts are available from the metal version ODU-MINI-SNAP in the diameters 0.5 to 4.0 mm.

The contacts are available with following terminations:

- Solder
- Crimp
- Print

### Standard Pin Contacts



Mating cycles:	> 5000
Material:	Brass
Treatment processing:	At least. 1.25 µm Ni; at least. 0.75 µm Au on the mating area

**For information regarding diameter, termination style and current load please see the Contact Configuration section.**