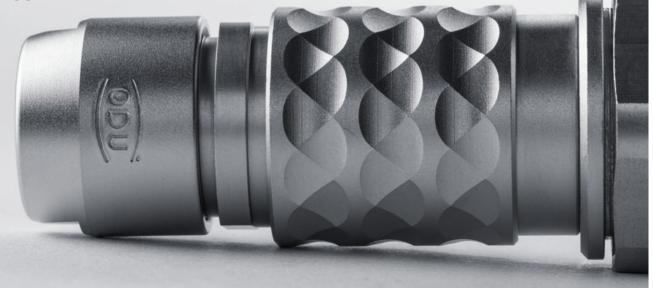


ADVANCED CONNECTOR SOLUTIONS

Product Training Module
ODU MINI-SNAP® L Series





Purpose:

Introduce the ODU MINI-SNAP® L Series connector

Objectives:

- · Review: features and benefits
- ODU MINI-SNAP® L Series complete connector solution
- ODU MINI-SNAP® L Series plug housings models
- ODU MINI-SNAP® L Series receptacle housing models
- Contact configurations / technology
- Mechanical coding
- Cable collet system
- Part number configuration
- Accessories
- Target markets and applications
- Certifications
- Summary

Content:

22 pages



This presentation will go over the ODU MINI-SNAP® L Series circular Push-Pull locking connectors. It will cover the main features and benefits, as well as the variety in housing options and inserts available. The presentation will also provide an overview of the ODU MINI-SNAP® L Series main technology features, the part number configurator and the certifications.



Review Features and Benefits

Series Overview:

- Circular connector series in a robust metal housing
- Up to 6 sizes
- Push-Pull locking mechanism
- Quick and easy mating and demating
- IP50 protection, IP68 on select panel receptacle housings
- Up to 5,000 mating cycles
- 2 to 40 contacts/mixed configurations
- 12 mechanical coding options
- Terminations types solder, crimp, PCB





The ODU MINI-SNAP® is an ideal self-locking circular connector for a wide range of applications due to its robust metal housing and wide range of sizes. Push-Pull locking mechanism for easy and secure mating and demating. IP50 protection - up to IP68 on select panel receptacle housings, up to 5,000 mating cycles, 2-40 contacts and mixed configurations possible with 12 mechanical coding options. The ODU MINI-SNAP® L Series can be terminated in solder, crimp and PCB.



Complete Connector Solution



ODU offers high-quality connectors and comprehensive service for the complete assembly. Anything from connectors to watertight grouting, we provide the complete system from a single source.



Plug Housing Models



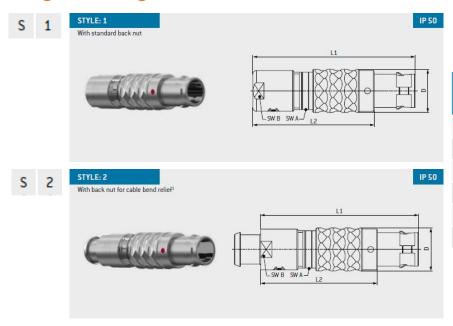




The ODU MINI-SNAP® L Series is available in a variety of styles and 6 different standards sizes from 6.4 mm to 25 mm. Housing is made of brass, nickel plated and then matte chrome plated, while the plug internals are made of nickel plated brass. Straight and right-angles plugs are IP50 rated and panel-mounted plugs are available with IP68 rating. S1/S2 plug housings and G1/G5 panel receptacle housing are readily available via distribution.



Plug Housing Models



| Size | L1 | L2 | D mm | SW A | S1 SW B | S2 SW B |
|------|------|------|---------|------|------------|------------|
| 00 | ≈ 28 | ≈ 20 | 6.4 | 5.5 | 5 | 5 |
| 0 | ≈ 36 | ≈ 26 | 9 | 8 | 7 | 7 |
| 1 | ≈ 43 | ≈ 32 | 11.5 | 10 | 10 | 10 |
| 2 | ≈ 50 | ≈ 38 | 14.5 | 13 | 12 | 13 |
| 3 | ≈ 61 | ≈ 46 | 17.5 | 15 | 14 | 15 |
| | | | | | | |
| 4 | ≈ 76 | ≈ 58 | 25 | 21 | 20 | 20 |

The Style 1 and Style 2 shown here are the two most commonly used straight plug housing styles.

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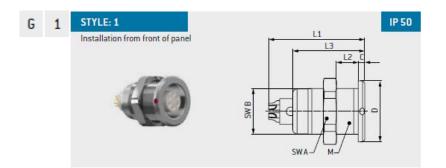
Receptacle Housing Models



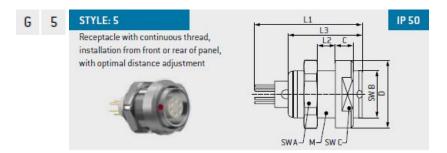
There are a variety of housing models available for the ODU MINI-SNAP® L Series. IP50 and IP68. Rating are possible in reference to the end device and also in unmated form. Visual red dot indicates 12 o'clock position. Both front and rear panel mounted receptacles are available.



Receptacle Housing Models



| Size | L1 ¹ | L2 | L3 ² | М | D | SW A | SW B | С | Panel | cut-out |
|------|-----------------|------|-----------------|--------|----|------|------|-----|----------|---------|
| | mm | mm | mm | mm | mm | mm | mm | mm | SW mm | Ø mm |
| 00 | ≈ 16 | ≈ 7 | 12 | 7×0.5 | 8 | 9 | 6.3 | 1 | 6.4 | 7.1 |
| 0 | ≈ 20 | ≈ 9 | 14.5 | 9×0.5 | 10 | 11 | 8.2 | 1.5 | 8.3 | 9.1 |
| 1 | ≈ 24 | ≈ 8 | 16.5 | 12×1 | 14 | 14 | 10.5 | 1.5 | 10.6 | 12.1 |
| 2 | ≈ 27 | ≈ 10 | 18.5 | 15×1 | 18 | 17 | 13.5 | 1.8 | 13.6 | 15.1 |
| 3 | ≈ 30.5 | ≈ 13 | 22.5 | 18×1 | 22 | 22 | 16.5 | 2 | 16.6 | 18.1 |
| 4 | ≈ 35 | ≈ 13 | 27 | 25 × 1 | 28 | 30 | 23.5 | 2.5 | 23.6 | 25.1 |



| Size | L11 | L2 | L3 ² | М | D | SW | SW | SW | C | Panel | cut-out |
|------|--------|--------|-----------------|---------|------|----|------|---------|-----|-------|---------|
| | mm | mm | mm | mm | mm | A | B | C mm | mm | SW | Ø |
| 00 | ≈ 16 | ≈ 6 | 12 | 7 × 0.5 | 9 | 9 | 6.3 | 8 | 2 | 6.4 | 7.1 |
| 0 | ≈ 20 | ≈ 8 | 14.5 | 9 × 0.5 | 11.5 | 11 | 8.2 | 10 | 2.5 | 8.3 | 9.1 |
| 1 | ≈ 24 | ≈ 8 | 16.5 | 12×1 | 15 | 14 | 10.5 | 13 | 4 | 10.6 | 12.1 |
| 2 | ≈ 27 | ≈ 10 | 18.5 | 15×1 | 20 | 17 | 13.5 | 17 | 3.8 | 13.6 | 15.1 |
| 3 | ≈ 30.5 | ≈ 12 | 22.5 | 18×1 | 23 | 22 | 16.5 | 20 | 5 | 16.6 | 18.1 |
| 4 | ≈ 35 | ≈ 10.5 | 27 | 25 × 1 | 30 | 30 | 23.5 | 27 | 4.5 | 23.6 | 25.1 |

The Style 1 and Style 5 shown here are the two most commonly used receptacle housing styles. Style 1 is a front mount solution only while the style 5 can be front or rear mounted.



TERMINATION TECHNOLOGIES FOR TURNED CONTACTS

Solder termination

The contacts are mounted in the insulator before the single connectors are assembled. An insulator with pre-installed contacts is referred to as a contact insert.

Crimp termination

Here, the individual contact is connected to the individual wires via deformation in the termination area. Then the contacts are individually installed in the insulator. 8-point deformation is generally used for turned crimp contacts.

PCB Termination

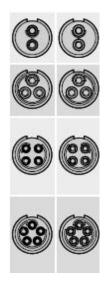
This is only used in the receptacle if the receptacle is to be mounted directly on a printed circuit board (PCB). Further information is available upon request.

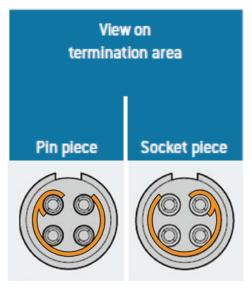


Insulators with pin contacts fit into the receptacle or in-line receptacle, as well as into the plug. The same applies to insulators with socket contacts. In general, insulators with socket contacts are installed in the live part (to provide protection from accidental touch). The way of mounting the contacts in the insulator is important because of the termination technology. The termination technology for ODU MINI-SNAP® includes: soldering, crimping and PCB. Contacts are turned brass contacts, nickel plated with a gold finish – available in .5 mm to 2 mm diameter, and rated for 5,000 mating cycles.



Pin Out Markings



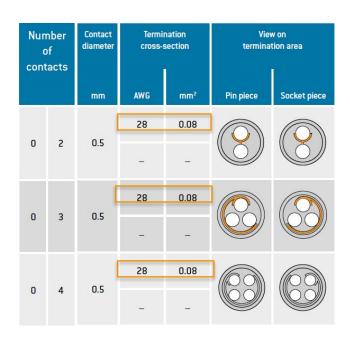


(example of pin guide markings)

Contact configurations are simple to understand following the visual cues. Pin #1 is always designated by the half moon marking and the other pin numbers are determined by following the line around or inward to the last pin as shown on the example via the orange marking.



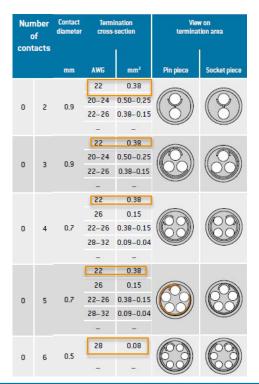
Size 00 insert configurations



Size 00 contact configurations shown here come in 2, 3 or 4 pin configurations and are all able to accommodate 28 AWG.



Size 0 insert configurations



| Number of contacts | | Contact diameter | | nation section | View on termination area | | | |
|--------------------------|------------------|---------------------|-----|-------------------|-----------------------------|--------------|--|--|
| | | mm | AWG | mm² | Pin piece | Socket piece | | |
| | _ | 0.5 | 28 | 80,0 | 600 | | | |
| U | 0 7 | 0.5 | | - | | | | |
| | | 0.5 | 28 | 80,0 | 690 | 690 | | |
| U | 0 9 | 0,5 | - | - | | | | |
| | 1 0 ⁸ | 0.5 | 28 | 0,08 | 680 | 689 | | |
| 1 | | 0,5 | 82 | - | | | | |

Size 0 contact configurations shown here come in 2 – 16 pin configurations and will accommodate 20 AWG to 28 AWG, with .5 mm to 1.3 mm contact diameters available.



Size 1 insert configurations

| Number of contacts | | Contact diameter | | ination section | | w on tion area | |
|--------------------------|-----|---------------------|-------|--------------------|-----------|-------------------|--|
| | | mm | AWG | mm² | Pin piece | Socket piece | |
| | | | 18 | 1 | | | |
| | 0 2 | | 20 | 0.5 | | | |
| 0 | | 1,3 | 18-20 | 1.00-0.50 | (O) | (O) | |
| | | | _ | - | | | |
| | | | 18 | 1 | | | |
| | 0 3 | 1,3 | 20 | 0.5 | | | |
| 0 | | | 18-20 | 1.00-0.50 | | | |
| | | | - | - | | | |
| | | | 22 | 0,38 | | | |
| | | | 20-24 | 0.50-0,25 | | | |
| 0 | 4 | 0.9 | 22-26 | 0,38-0,15 | | | |
| | | | - | - | | | |
| | | | 20 | 0.50 | | | |
| | | | 22 | 0,38 | 600 | | |
| 0 | 5 | 0.9 | 20-24 | 0.50-0.25 | (000) | (00) | |
| | | | 22-26 | | | | |
| | | | | _ | | | |
| | | | 22 | 0.38 | | | |
| | | | 26 | 0.15 | | 6 | |
| 0 | 6 | 0.7 | | 0.38-0.15 | | (6 d) | |
| | | | | 0.09-0.04 | | | |
| | | | _ | | | | |

| | nber of tacts | Contact diameter | | ination section | | w on tion area |
|---|---------------------|---------------------|-------|--------------------|-----------|-------------------|
| | | mm | AWG | mm² | Pin piece | Socket piece |
| | | | 22 | 0.38 | | |
| | | | 26 | 0.15 | 6 | 60 |
| 0 | 7 | 0.7 | 22-26 | 0.38-0.15 | (600d) | (600) |
| | | | 28-32 | 0,09-0.04 | | |
| | | | - | - | | |
| | | | 22 | 0,38 | | |
| | | | 26 | 0.15 | (ADA) | 600 |
| 0 | 8 | 0.7 | 22-26 | 0,38-0,15 | (600) | (600) |
| | | | 28-32 | 0.09-0.04 | | |
| | | | | .72 | | |
| | | | 26 | 0,15 | 00 | (OO) |
| 1 | 0 | 0,5 | 28 | 80,0 | (669) | (693) |
| | | | - | - | 00 | 00 |
| | | | 28 | 0,08 | 600 | 699 |
| 1 | 1 4 | 0,5 | - | - | | |
| | | | 28 | 0.08 | 1000 | 600 |
| 1 | 1 6 | 0,5 | 121 | - | | |

Size 1 contact configurations shown here come in 2 – 16 pin configurations and will accommodate 20 AWG to 28 AWG, with .5 mm to 1.3 mm contact diameters available.



Size 2 - 4 insert configurations



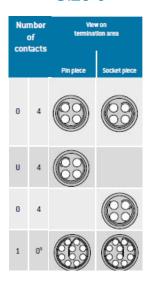
| • | nber if acts | | tact t | уре | Par | rt nun key | nber | Contact diameter | Single contact nominal | Clearance a dist | ance | Test voltage ² | Nominal voltage ⁵ | Termi- nation diameter | | Ination section | Vien termina | r on tion area |
|-------|--------------------|--------------------|--------|-------|-----|---------------|------|---------------------|------------------------------|-----------------------|-----------------------|------------------------------|---------------------------------|------------------------------|-------|--------------------|-----------------|-------------------|
| LUIII | atts | Terrination | Socke | æ | | | | mm | current 1 | Contact to contact mm | Contact to housing mm | kVeff | Wins | mm | AWG | mm² | Pin piece | Socket plec |
| | - 1 | | | | T | S | 0 | | 24 | 1.8 | 1.5 | A. C.II | | 2.4 | 12 | 2.5 | | |
| 0 | 3 | Solder | L | М | T | 0 | 0 | 2 | - | 2.0 | | 1.800 | 0.600 | 1.85 | 14 | 1.5 | | (0) |
| 7 | | PCB ⁸ | Q | R | T | 0 | 0 | _ | 18 | 2 | 1.7 | 10000 | | 0.7 | | - | | 100 |
| | | | - | | T | S | 0 | | 24 | 1.4 | 1.2 | | | 2.4 | 12 | 2.5 | | |
| 0 | 4 | Solder | L | М | T | 0 | 0 | 2 | | | | 1.650 | 0.550 | 1.85 | 14 | 1.5 | | 100 |
| | | PCB ⁴ | Q | R | T | 0 | 0 | | 18 | 1.6 | 1.4 | | | 0.7 | - | - | | 600 |
| | | Solder | L | м | S | N | 0 | | 16 | 1.5 | 1.6 | 1.800 | 0.600 | 1.4 | 18 | 1.00 | _ | _ |
| | | | | | S | N | 0 | | 21 | 1.1 | 1.2 | 1.350 | 0.450 | - | 14-18 | 1.50-1.00 | (00) | (00 |
| 0 | 7 | Crimp ³ | N | P | S | L | 0 | 1.6 | | 1.5 | 1.6 | | | - | 18-20 | 1.00-0.50 | (000g) | Pooc |
| | | PCBs | Q | R | S | 0 | 0 | | 16 | 1.3 | 1.4 | 1.800 | 0.600 | 0.7 | - | - | | |
| | | | | | P | N | 0 | | 15 | 1.1 | 1.3 | 1.350 | 0.450 | 1.4 | 18 | 1.00 | | |
| | | Solder | L | М | P | Н | 0 | | 12 | 1.4 | 1.6 | 1.650 | 0.550 | 1.1 | 20 | 0.50 | 600 | 600 |
| 0 | 8 | ev//e | 4 | | P | t | 0 | 1.3 | 15 | 1.1 | 1.3 | 1.350 | 0.450 | - | 18-20 | 1.00-0.50 | 6 0 | 6 |
| | | Erimp ³ | N | Р | P | Н | 0 | | | 1.4 | 1.6 | | | - | 20-24 | 0.50-0.25 | 60 | 600 |
| | | PCBs | Q | R | Р | 0 | 0 | | 12 | 1.2 | 1.4 | 1.650 | 0.550 | 0.7 | - | - | | |
| | | | | | P | N | 0 | | 15 | 0.9 | 1.1 | 1.100 | 0.366 | 1.4 | 18 | 1.00 | 600 | 100 |
| 1 | 0 | Solder | L | М | Р | Н | 0 | 1.3 | | 1.2 | 1.4 | | | 1.1 | 20 | 0.50 | (888) | 699 |
| | | PCB ⁴ | Q | R | P | 0 | 0 | | 12 | 1 | 1.2 | 1.350 | 0.450 | 0.7 | - | - | | |
| | | Solder | ī | м | J | Н | 0 | | 10 | 0.8 | 1 | 1.000 | 0.333 | 1.1 | 20 | 0.50 | | |
| | | 201064 | L | 100 | J | 6 | 0 | | 7.5 | 1.1 | 1.3 | 1.350 | 0.450 | 0.85 | 22 | 0.38 | 100 | 100 |
| 1 | 4 | | N | р | J | Н | 0 | 0.9 | 10 | 0.8 | 1 | 1.000 | 0.333 | - | 20-24 | 0.50-0.25 | | (CC) |
| | | Cumb ₃ | N | Р | 3 | 6 | 0 | | 75 | 1.1 | 1.3 | 1.350 | 0.450 | = | 22-26 | 0.38-0.15 | .5 | 0 |
| | | PCB ^E | 2 | R | J | 0 | 0 | | r.5 | 1.1 | 1.5 | 1.350 | 0.450 | 0.7 | | 12 | | |
| | | Solder | 1 | м | J | Н | 0 | | 10 | 0.7 | 0.9 | 1.000 | 0.333 | 1.1 | 20 | 0.50 | | |
| | | Soluti | L | M | J | G | 0 | | 7.5 | 1 | 1.2 | 1.350 | 0.450 | 0.85 | 22 | 0.38 | 6900 | 690 |
| 1 | 6 | Erimp ³ | N | Р | J | Н | 0 | 0.9 | 10 | 0.7 | 0.9 | 1.000 | 0.333 | - | 20-24 | 0.50-0.25 | (66.33) | 663 |
| | | Limit | | · For | J | G | 0 | | 75 | -1 | 1.2 | 1.350 | 0.450 | ~ | 22-26 | 0.38-0.15 | | 000 |
| | | PCBt | Q | R | J | 0 | 0 | | 1.3 | 1 | 1.2 | 1.330 | 0.430 | 0.7 | 2 | - | | |
| | | Solder | L | м | J | Н | 0 | | 10 | 0.7 | 0.9 | 1.000 | 0.333 | 1.1 | 20 | 0.50 | | |
| | | Johnson | | | J | G | 0 | | 7.5 | 0.9 | 1.1 | 1.350 | 0.450 | 0.85 | 22 | 0.38 | 699 | 690 |
| 1 | 8 | Crimp ² | N | р | J | Н | 0 | 0.9 | 10 | 0.7 | 0.9 | 1.000 | 0.333 | | 20-24 | 0.50-0.25 | (33) | (B) 3 |
| | | 20004 | | | J | G | 0 | | 7.5 | 0.9 | 1.1 | 1.350 | 0.450 | - | 22-26 | 0.38-0.15 | | |
| | | PEBE | Q | R | J | 0 | 0 | | | | | | | 0.7 | - | - | | |
| | | Solder | L | м | F | G | 0 | | 7.5 | 0.8 | 1.2 | 1.000 | 0.333 | 0.85 | 22 | 0.38 | | |
| | | | | | F | D | 0 | | 6 | 1 | 1.4 | 1.100 | 0.366 | 0.6 | 26 | 0.15 | 6888 | 888 |
| 2 | 0 | Erimp ² | N | Р | F | G | 0 | 0.7 | 7.5 | 0.8 | 1.2 | 1.000 | 0.333 | - 7 | 22-26 | 0.38-0.15 | 66.33 | 66.3 |
| | | | | | F | C | 0 | | 6 | 1 | 1.4 | 1.100 | 0.366 | | 28-32 | 0.09-0.04 | 000 | 000 |
| | | PCB ⁴ | 0 | R | F | 0 | D | | | | | | | 0.5 | 7 | - | | |
| | | Solder | L | м | F | 6 | 0 | | 7.5 | 0.7 | 1 | 1.000 | 0.333 | 0.85 | 22 | 0.38 | | |
| | | | | | F | D | 0 | 1000 | 6 | 0.9 | 1.2 | 1.100 | 0.366 | 0.6 | 26 | 0.15 | 6000 | 688 |
| 2 | 2 | Erimp ³ | N | P | F | G | 0 | 0.7 | 7.5 | 0.7 | 1 | 1.000 | 0.333 | - | 22-26 | 0.38-0.15 | | 1000 |
| | | | | | F | C | 0 | | 6 | 0.9 | 1.2 | 1.100 | 0.366 | - | 28-32 | 0.09-0.04 | | |
| | | PCB ⁴ | a | R | F | 0 | 0 | | 25 | 0.5 | | 0.005 | 0.200 | 0.5 | - | | | |
| | | Solder | L | м | F | G | 0 | | 7.5 | 0.5 | 0.9 | 0.900 | 0.300 | 0.85 | 22 | 0.38 | | |
| | | | | | F | D | 0 | | 6 | 0.7 | 1.1 | 1.000 | 0.333 | 0.6 | 26 | 0.15 | 688 | 608 |
| 2 | 6 | Crimp ³ | N | P | F | G | 0 | 0.7 | 7.5 | 0.5 | 0.9 | 0.900 | 0.300 | - | 22-26 | 0.38-0.15 | | |
| | | PCR ⁴ | | | F | C | 0 | | 6 | 0.7 | 1.1 | 1.000 | 0.333 | - | 28-32 | 0.09-0.04 | | |
| | | PCB, | 0 | R | F | 0 | 0 | | 7.5 | 0.8 | 1.2 | | | 0.5 | - | 0.00 | | |
| | | Solder | L | м | F | G | 0 | | 7.5 | 0.4 | 1 12 | | | 0.85 | 22 | 0.38 | - | |
| | | | | | F | D | 0 | | 6 | 0.6 | | 0.000 | 0.200 | 0.6 | | 0.15 | 600 | 600 |
| 3 | 0 | Erimp ³ | N | Р | F | G C | 0 | 0.7 | 7.5 | 0.4 | 1 | 0.900 | 0.300 | 100 | 22-26 | 0.38-0.15 | (32) | 6 |
| | | 000 | | R | F | | 0 | | 6 | 0.6 | 1.2 | | | - | 28-32 | 0.09-0.04 | | |
| | | PCB | 0 | R | F | 0 | 0 | | | 0.7 | 1.3 | | | 0.5 | - | - | | |





High Data Inserts

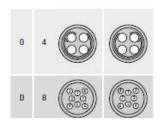
Size 0



SPECIFIC INSERTS FOR HIGH DATA TRANSMISSION RATES

Size 1





Size 2

| (| nber of tacts | Vlev terminat | |
|---|---------------------|------------------|--------------|
| | | Pin piece | Socket piece |
| 0 | 4 | | |
| D | 8 | | 000 |

High speed data transfer solutions are also available in multiple housing sizes, with data transfer speeds of Ethernet Type CAT5 up to 100 Mbit, USB® 2.0* and USB® 3.2 Gen 1x1* for size 0, Ethernet Type CAT5 up to 100 Mbit and Ethernet Type CAT5e up to 1 Gbit for size 1, Ethernet Type CAT6 up to 10 Gbit for size 2.

^{*}These ODU specific connectors can transmit common data transmission protocols such as USB® 2.0, USB® 3.0 but they are not USB® -standard connectors.



Hybrid configurations



ODU provides a wide range of custom connector solutions that can accommodate multiple pin counts and contact combinations. ODU's customer orientated connector systems ensure a reliable transmission of power, signal, data and media for a large variety of demanding applications. We provide all relevant areas of expertise and key technologies including design and development, machine tool and special machine construction, injection, stamping, turning, surface technology, assembly and cable assembly. Our advanced customer benefit portfolio include: competitive lead time, rapid prototyping & product development, local one-to-one engineering support, cable assembly integrated solutions and custom connector capabilities - all factory direct.



Mechanical Coding

O A

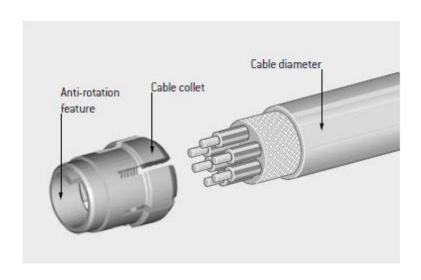
| Angle | Receptacle | Size | | | | | | | |
|-------|------------|------|---|---|---|---|---|--|--|
| | front view | 00 | 0 | 1 | 2 | 3 | 4 | | |
| 0° | | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | | |
| 30° | | | | | | | 0 | | |

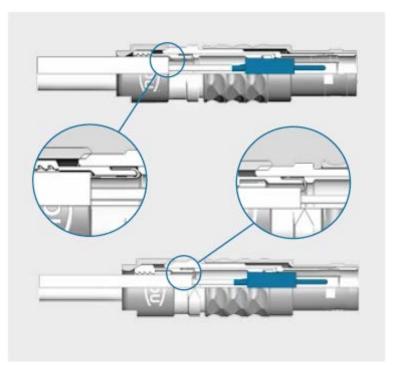
• Standard o On request

Additional layer of security is provided through the mechanical pin and groove coding. 12 different coding options are available with 0° and 30° degrees being the standard.



Cable Collet

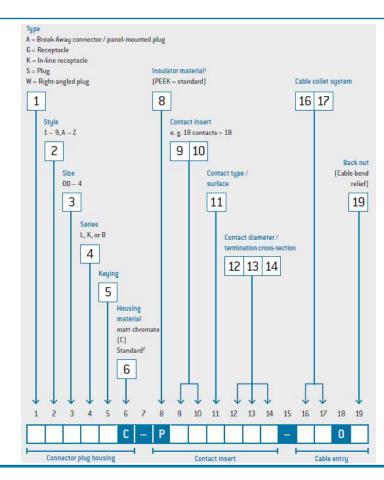




The cable collet components shown here saves the cable from being pulled out from the connector and damaging the termination points. Cable collets are used in all straight and in-line receptacles. It's important to correctly identify outer cable diameter measurements to match it to the correct collet size.



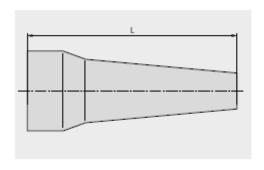
Part Number Configuration



The part number configurator breaks down ODU's part number layout. Begin by selecting the plug housing style and size of the connector, followed by the contact insert details and finally the cable entry type.



Accessories



TEMPERATURE RANGE

Silicone: $-50\,^{\circ}\text{C}$ up to $+200\,^{\circ}\text{C}$, short-term up to $+230\,^{\circ}\text{C}$ Autoclaveable

COLORS

| Color code | Color | RAL no.1 (similar) |
|------------|--------|-----------------------|
| 202 | Red | 3020 |
| 203 | White | 9010 |
| 204 | Yellow | 1016 |
| 205 | Green | 6029 |
| 206 | Blue | 5002 |
| 207 | Gray | 7005 |
| 208 | Black | 9005 |

Silicone bend sleeves are available for all plug and in-line housing sizes and come in 7 different colors.



Markets and Applications





ODU MINI-SNAP® L Series is valuable to a wide range of applications from the medical, industrial, test and measurement, military and security, and automotive applications including but not limited to: treatment and surgery, diagnostics, patient monitoring, hand-pulse oximeters, portable scanners, measuring sensors, data acquisition systems, thermal imaging cameras, high speed cameras, mobile security systems, video equipment, LiDAR systems, etc.



Certifications

- ISO 9001
- IATF 16949
- ISO 13485
- ISO 14001
- ISO 50001
- · UL, CSA, VG and VDE licenses
- · UL certified cable assembly



ODU provides a large portfolio of quality certifications including ISO 9001, IATF 16949, ISO 13485, 14001 and 50001 and also UL, CSA, VG and VDE licenses. ODU cable assemblies are all UL certified.



Summary

ODU MINI-SNAP® L Series offers:

- Circular Push-Pull locking connector solution
- Robust metal housing
- IP50 rated
- Wide range of contact configurations
- Hybrid and high speed insert solutions available
- Multiple coding options to prevent cross connection
- Up to 6 sizes and three termination types



The ODU MINI-SNAP® L Series is a versatile circular Push-Pull locking connector solution with a robust metal housing that is IP50 rated. Ideal for a wide range of applications due to its many contact configurations including its hybrid and high speed inserts. Available in 6 sizes, multiple coding options and 3 termination types, it becomes a viable solution for applications with specific requirements.