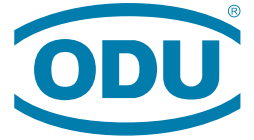


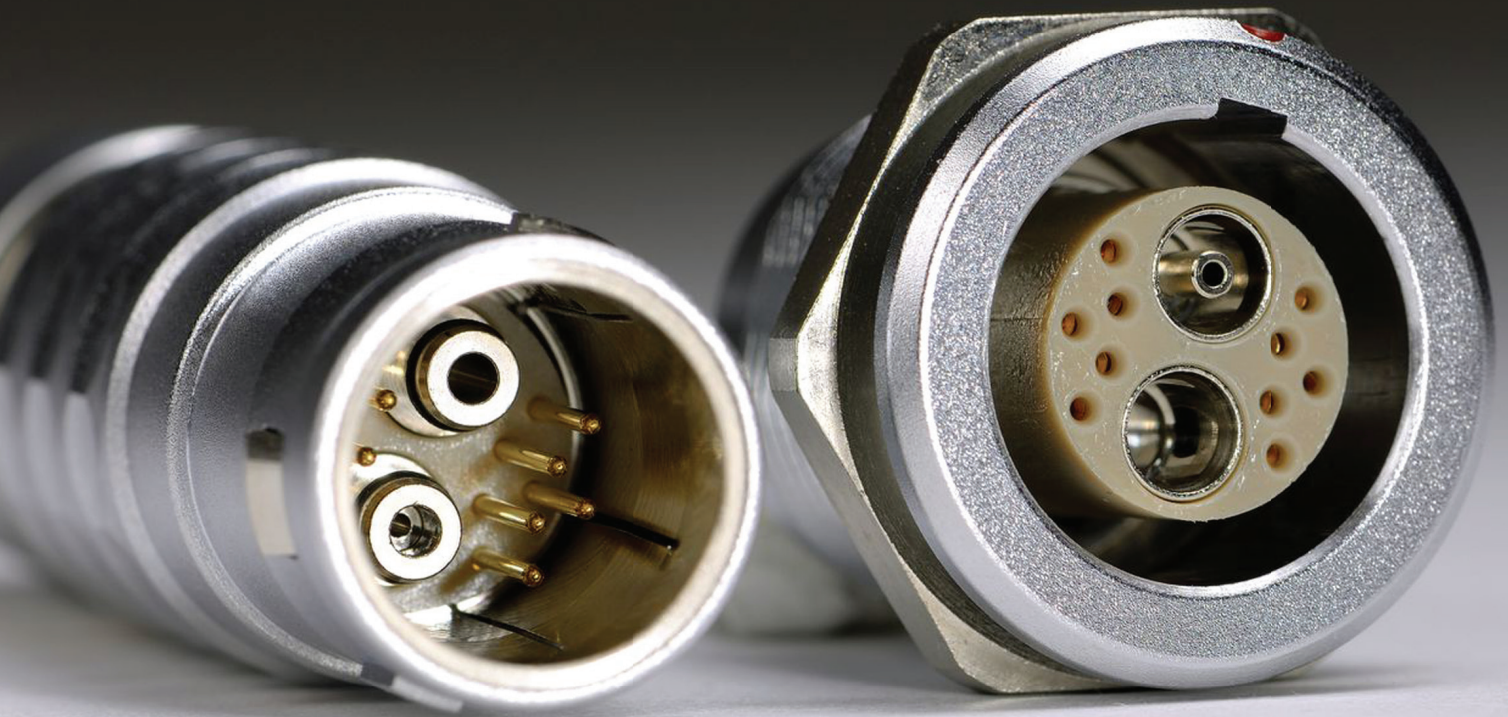
A PERFECT ALLIANCE.



HYBRID CONNECTORS

Connector solutions for a wide variety of applications

VERSATILITY



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ODU GROUP OVERVIEW

- More than 70 years of connector experience
- €146 million in turnover
- Over 1,650 employees worldwide
- 9 sales subsidiaries: China, Denmark, France, Germany, Italy, Japan, Sweden, the UK and the US
- 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: military and security, medical, measurement & testing, industrial, energy, and emobility

Status: March 2016

CERTIFIED QUALITY

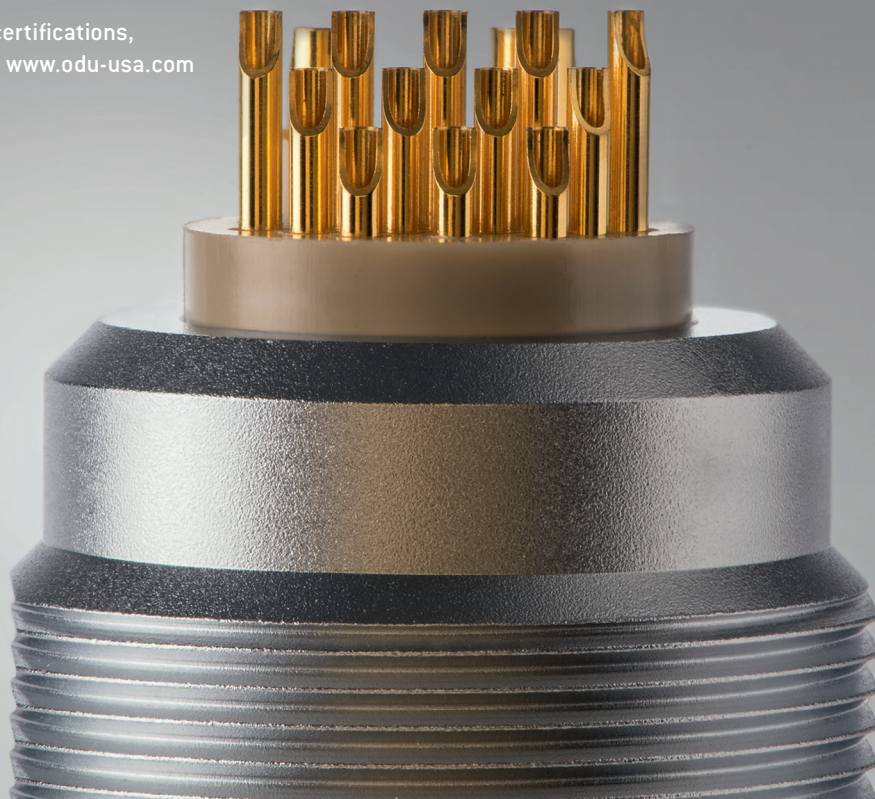
- DIN EN ISO 9001
- DIN ISO TS 16949
- DIN EN ISO 14001
- ISO 13485
- Wide range of UL, CSA, VG and DVA licenses
- UL-certified cable assembly

For a complete list of our certifications,
please visit our website at www.odu-usa.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



ADVANCED CONNECTOR SOLUTIONS

ODU GROUP 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.

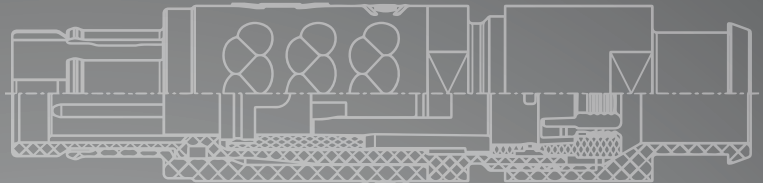


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Our advanced customer benefit portfolio include: competitive lead time, rapid prototyping & product development, local one-to-one engineering support, cable assembly integrated solutions and custom connector capabilities - all factory direct.

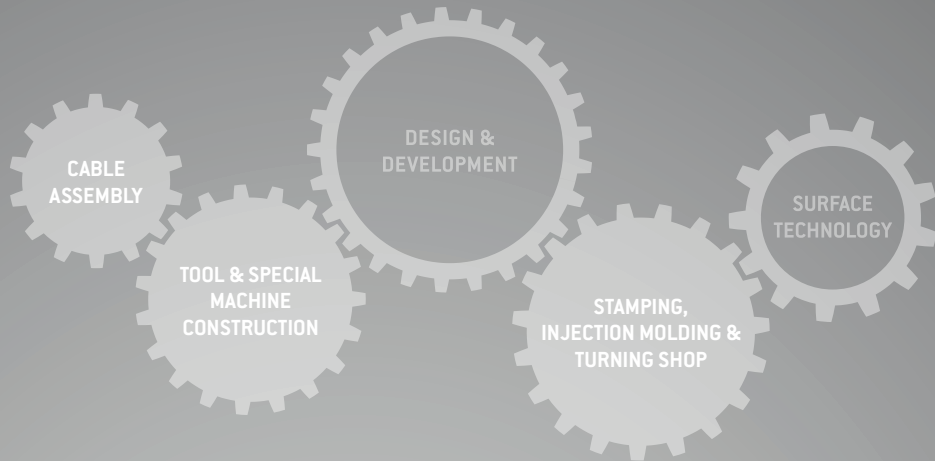
CUSTOMIZED DEVELOPMENTS

Innovative, reliable solutions to perfectly fit the customer's specifications – either based on ODU's time-tested product line or as a brand-new customer-specific application.



HIGH LEVEL OF VERTICAL INTEGRATION

ODU consolidates all necessary expertise under one roof.



CROSS-INDUSTRY KNOW-HOW

ODU has extensive expertise in a wide range of industries. This provides added value to our customers through a broad range of know-how and practical experience combined with significant business acumen and efficiency.

MEDICAL	INDUSTRIAL	MEASUREMENT & TESTING
MILITARY & SECURITY	ENERGY	EMOBILITY

WIDE RANGE OF APPLICATIONS

ODU Hybrid Connector solutions are ideal for a wide range of applications from industries such as medical, industrial, measurement & testing, military and security.



ODU HYBRID CONNECTOR SOLUTIONS



DESCRIPTION:

- ODU MINI-SNAP® series K, size 3, receptacle G3
- 18 contacts - 14 x Ø 0.7 mm contacts for signal transmission
4 x Ø 0.7 mm contacts in a shielded application
{contact insert for Ethernet, 100 Mbit}



DESCRIPTION:

- ODU MINI-SNAP® series L, size 4, receptacle similar to G1
- 22 contacts - 18 x Ø 0.7 mm contacts for signal transmission
4 x coax 50Ω



TECHNICAL INFORMATION:

- IP 68 in mated condition
- Termination cross-section: 0.38 mm²
- Termination type: PCB {receptacle}, solder {straight plug}
- Test voltage: 0.875 kVeff
- Single contact nominal current: 6 A

TECHNICAL INFORMATION:

- IP 50 in mated condition
- Termination cross-section: AWG 26 / 0.15 mm²
- Termination type: solder / crimp {coax}
- Test voltage: 0.9 kVeff
- Single contact nominal current: 7 A
- Frequency range coax: 0-0-5500 MHz



Brochure only shows small selection of available hybrid inserts. ODU-USA specializes in development and tooling of a large variety of custom hybrid inserts.



DESCRIPTION:

- ODU MINI-SNAP® series L, size 3, receptacle customer specific
- 4 contacts - 4 x \varnothing 0.9 mm contacts for signal transmission
1x draft implementation \varnothing 3 mm
1x flue implementation \varnothing 5 mm

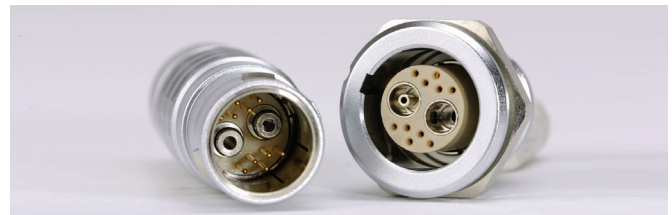


TECHNICAL INFORMATION:

- Tightness of implementation 0.2 bar (in mated condition)
- Termination cross-section: 0.7 mm (receptacle), 0.38 mm² (straight plug)
- Termination type: PCB (receptacle), solder (straight plug)
- Test voltage: 0.875 kVeff
- Single contact nominal current: 10 A

DESCRIPTION:

- ODU MINI-SNAP® series L, size 3, receptacle similar to G1
- 10 contacts - 10 x \varnothing 0.7 mm contacts for signal transmission
1 x medial feedthrough \varnothing 2 mm locking
1 x air feed through \varnothing 2 mm



TECHNICAL INFORMATION:

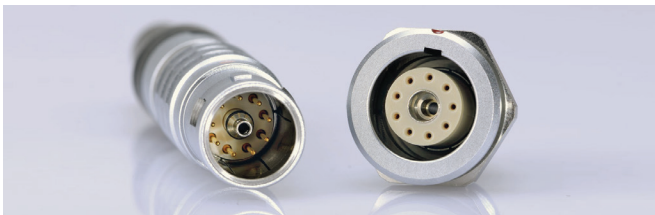
- IP 50 in mated condition
- Termination cross-section: AWG 22 / 0.38 mm²
- Termination type: solder
- Test voltage: 0.6 kVeff
- Single contact nominal current: 7 A
- Max. cable \varnothing 9.0 - 10.2 mm

ODU HYBRID CONNECTOR SOLUTIONS



DESCRIPTION:

- ODU MINI-SNAP® series L, size 3, receptacle similar to G 1
- 9 Contacts - 9 x Ø 0.7 mm contacts for signal transmission
1 x air feed through Ø 3 mm



DESCRIPTION:

- ODU MINI-SNAP® series PC, size 3, receptacle series PC unshielded similar to G1
- 8 Contacts - 4 x Ø 0.7 mm contacts for signal transmission
4 x Ø 0.7 mm high voltage contacts increased clearance and creepage distance (13 mm)
1 x air feed through Ø 2.0mm stainless steel



TECHNICAL INFORMATION:

- IP 50 in mated condition
- Termination cross-section: 0.5 mm (receptacle), 0.38 mm² (straight plug)
- Termination type: PCB (receptacle), solder (straight plug)
- Test voltage: 1 kVeff
- Single contact nominal current: 7 A
- Maximum admissible operating pressure: 5 bar

TECHNICAL INFORMATION:

- Termination cross-section: AWG 24/26 / 0.25-0.15 mm²
- Termination type: crimp
- Clearance and creepage distance in mated condition: >13 mm
- single contact nominal current: 7 A (3.85 /contact, complete application 8-contacts)
- Max. strand Ø 1.1 mm



Brochure only shows small selection of available hybrid inserts. ODU-USA specializes in development and tooling of a large variety of custom hybrid inserts.



DESCRIPTION:

- ODU MINI-SNAP series K, size 2, receptacle similar to G1
- 6 Contacts - 4 x \emptyset 0.7 mm contacts for signal transmission
2 x coax 50 Ω



DESCRIPTION:

- ODU MINI-SNAP® series F, size 2, receptacle similar to G1
- 3 Contacts - 2 x \emptyset 0.9 mm contacts for signal transmission
1 x coax 50 Ω

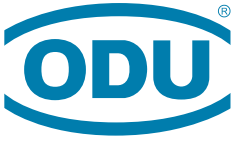


TECHNICAL INFORMATION:

- IP 68 in mated condition
- Termination cross-section: AWG 26 / 0.15 mm²
- Termination type: solder
- Test voltage: 0.75 kVeff
- Single contact nominal current: 7 A
- Frequency range 0-0-4500 MHz

TECHNICAL INFORMATION:

- Termination cross-section: AWG 14 / 1.5 mm²
- Termination type: Crimp
- Test voltage: 1.5 kVeff
- Signal contact nominal current: 10 A
- Frequency range: 0-0-4500 MHz



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Learn more about ODU.

ODU HYBRID CONNECTORS

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