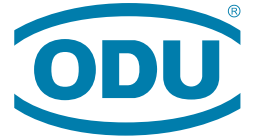


A PERFECT ALLIANCE.



ADVANCED CONNECTOR SOLUTIONS



⊕ CIRCULAR CONNECTORS



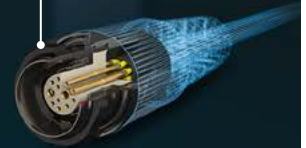
⊕ ELECTRICAL CONTACTS



⊕ MODULAR CONNECTORS

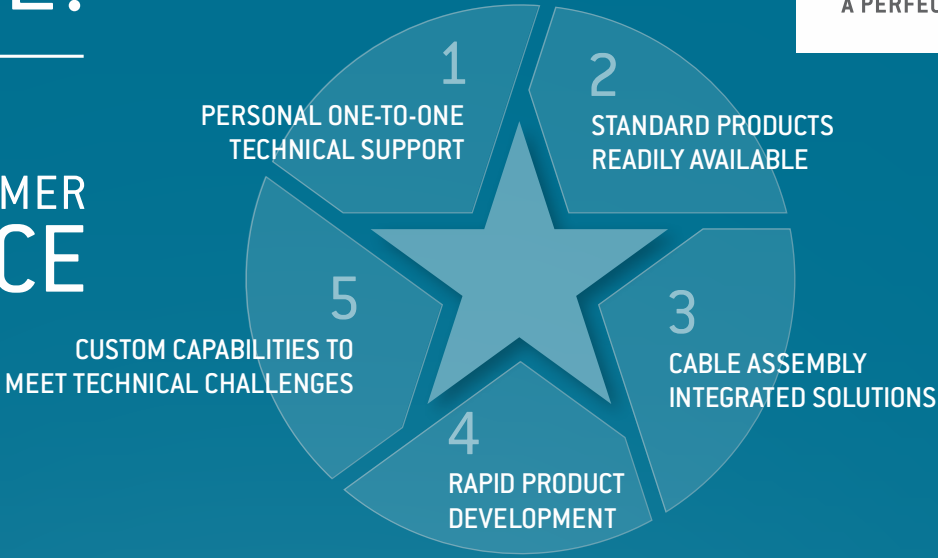


⊕ CABLE ASSEMBLY



A PERFECT ALLIANCE.

ODU 5 STAR CUSTOMER EXPERIENCE



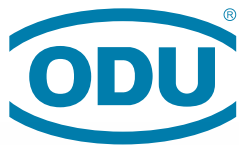
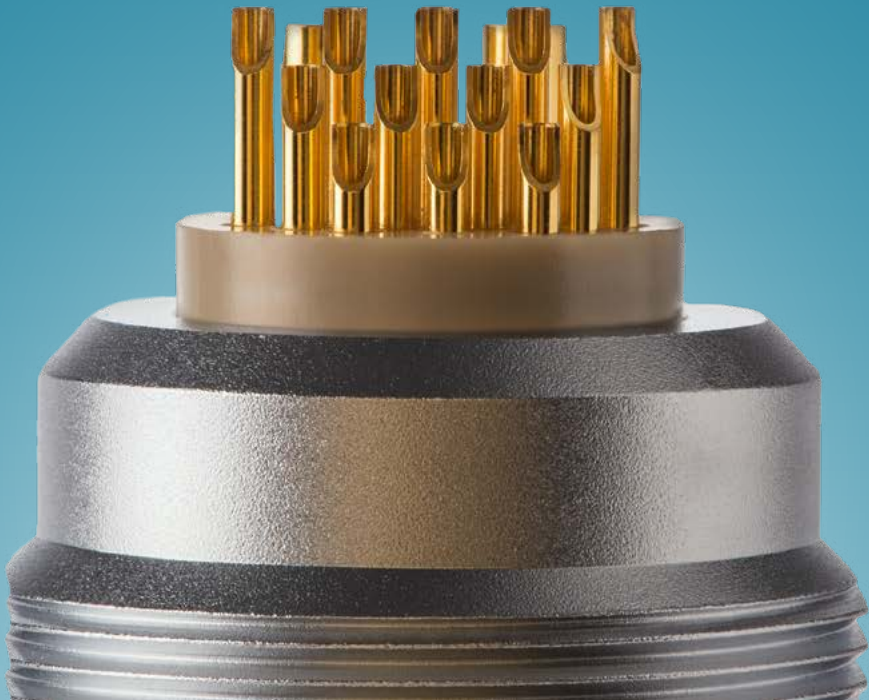
ODU GROUP OVERVIEW

- More than 80 years of experience in connector technology
- Over 2,300 employees worldwide
- 10 sales subsidiaries in China, Denmark, France, Germany, Italy, Japan, Korea, 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

We operate in the following markets: medical, military and security, test and measurement, industrial, energy, and automotive / emobility

As of February 2019

www.odu-usa.com



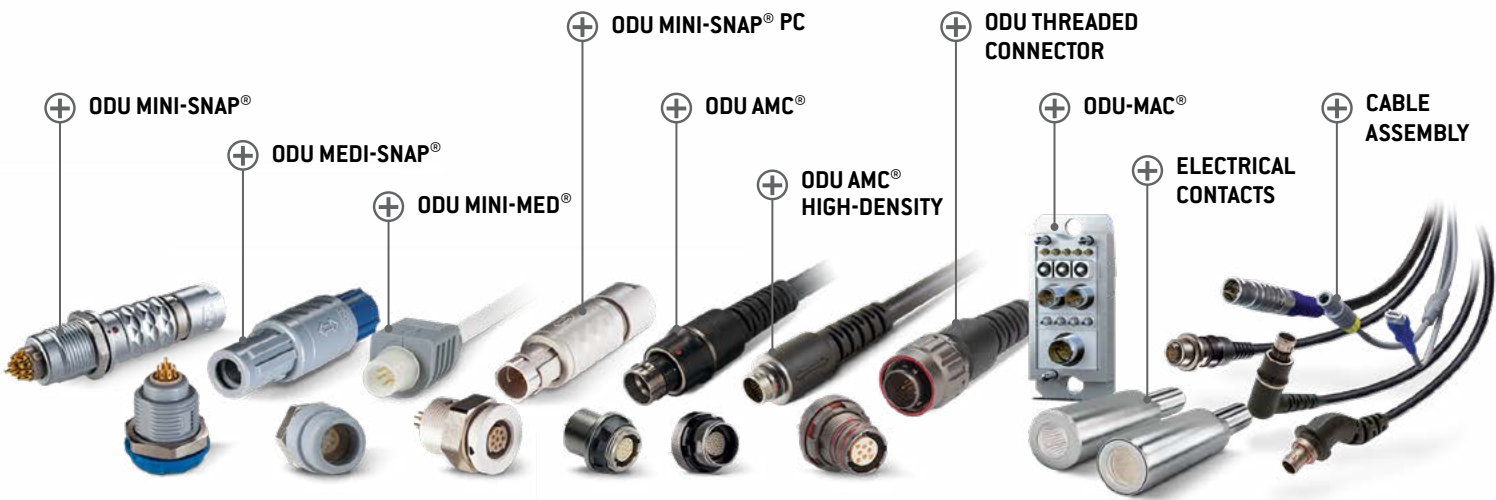
A PERFECT ALLIANCE.

CERTIFIED QUALITY

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

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

ODU CONNECTIVITY SOLUTIONS AND CAPABILITIES



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	ODU MINI-SNAP®	ODU MEDI-SNAP®	ODU MINI-MED®	ODU MINI-SNAP® PC	ODU AMC®	ODU AMC® High-Density	ODU Threaded Connector	ODU-MAC®	Electrical Contacts
Push-Pull locking	•	•		•	•				
Break-Away locking	•	•	•		•	•		•	•
Spindle or lever locking								•	
High-speed data transmission (> 480 Mbit/S)	•				•	•	•	•	
Mechanical coding	•	•	•	•	•	•	•	•	
Blind mate/ blind insertion	•	•	•	•	•	•	•	•	
360° Shielding	•				•	•	•	•	
Watertight	•	•	•	•	•	•	•	•	
High mating cycles (> 5,000)	•			•	•	•		•	•
High mating cycles (< 100,000 and more)								•	•
Vibration & shock resistant	•	•		•	•	•	•	•	•
Rack panel w/ docking frame								•	
Threaded technology							•		
Silicone overmold	•	•*				•**			

* Approved for ODU MEDI-SNAP® Break-Away Plugs in PSU

** Available in ODU-AMC® High-Density Chrome-Plated

ODU CUSTOM CONNECTOR CAPABILITIES

EXTREME DESIGNS – PUSHING THE LIMITS

See below some of our technical capabilities that have been used for specific custom applications. We continuously work with our customers to meet the most extreme technical challenges.

CONTACT OUR ENGINEERING TEAM
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Requirement	Extremes ODU has achieved
High current	2,400 A
High voltage	56 kV (DC) 36 kV (AC)
Water protection	IP67 / IP68 / IP69K / IP6K9K
Vacuum tightness	1 × 10 ⁻⁹ mbar l/s
Salt spray	700 hours
EMC / EMI protection	> 75 dB [0 – 5 MHz] / > 65 dB [5 MHz – 500 MHz]
High speed data rate	USB® 3.2 Gen 1x1 – 5 GBit/s ¹ / HDMI® – 14.4 Gbit/s ¹ / 10 Gbit Ethernet – 10 Gbit/s
Operating temperature	Up to 300 °C
Pressure	650 bar [9427 psi] operating receptacle / 500 bar [7251 psi] operating mated condition / 1,000 bar [14503 psi] burst
Vibration	LV214 Severity Level 4 [20 g, 10 – 2000 Hz, 22 h] Four-time multisinus per three-dimensional axis [16 g, 20 – 2000 Hz, 65 h per axis]
Mating cycles	> 1 Million
Hydraulic connection	25 bar [362 psi] operating
Pneumatic connection	20 bar [290 psi] operating
Fiber optic	< 1 dB typical @ 100,000 mating cycles single mode/multimode
Magnetic permeability	Magnetic permeability μ r < 1.0005
Environmental	Salt spray / fog, chemical resistance, UV, Arizona dust, radiation, sterilization
Shock	1,000 g
Contact density	1 contact/mm ²
Smallest contact diameter	0.3 mm
Smallest circular connector diameter	5 mm
On driving test	Electric vehicle adapter
Self finding solutions	+/- 5 mm float (shield and tight)

¹ These ODU specific connectors can transmit common data transmission protocols such as USB® 3.2 Gen 1x1 and HDMI®, but they are not USB®- or HDMI®-standard connectors.

ODU PRODUCT AVAILABILITY



CIRCULAR



MODULAR



ELECTRICAL CONTACTS



CUSTOM SOLUTIONS



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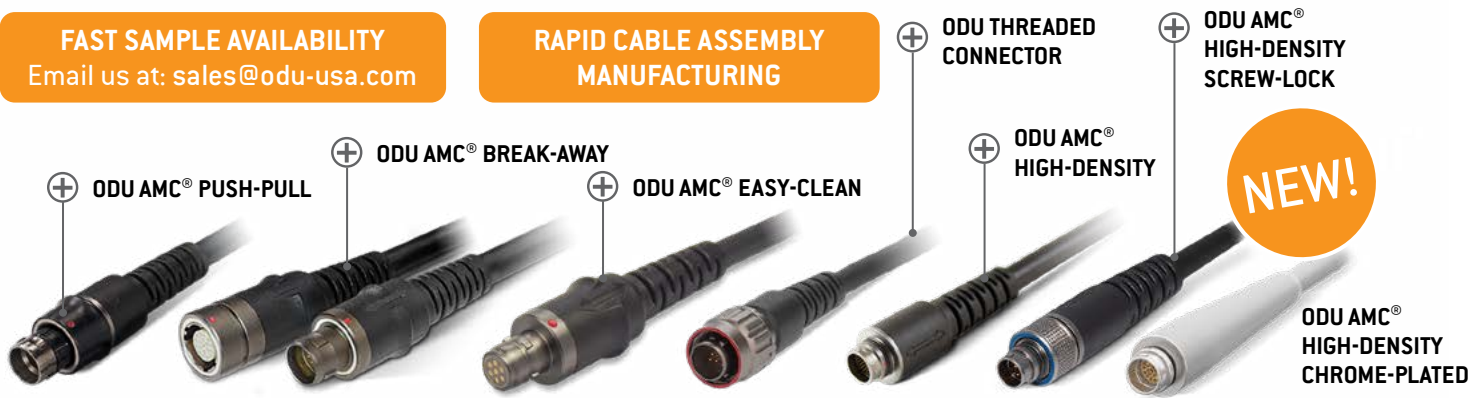
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ODU HIGH-DENSITY & LIGHTWEIGHT CONNECTOR PORTFOLIO

FAST SAMPLE AVAILABILITY
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RAPID CABLE ASSEMBLY
MANUFACTURING



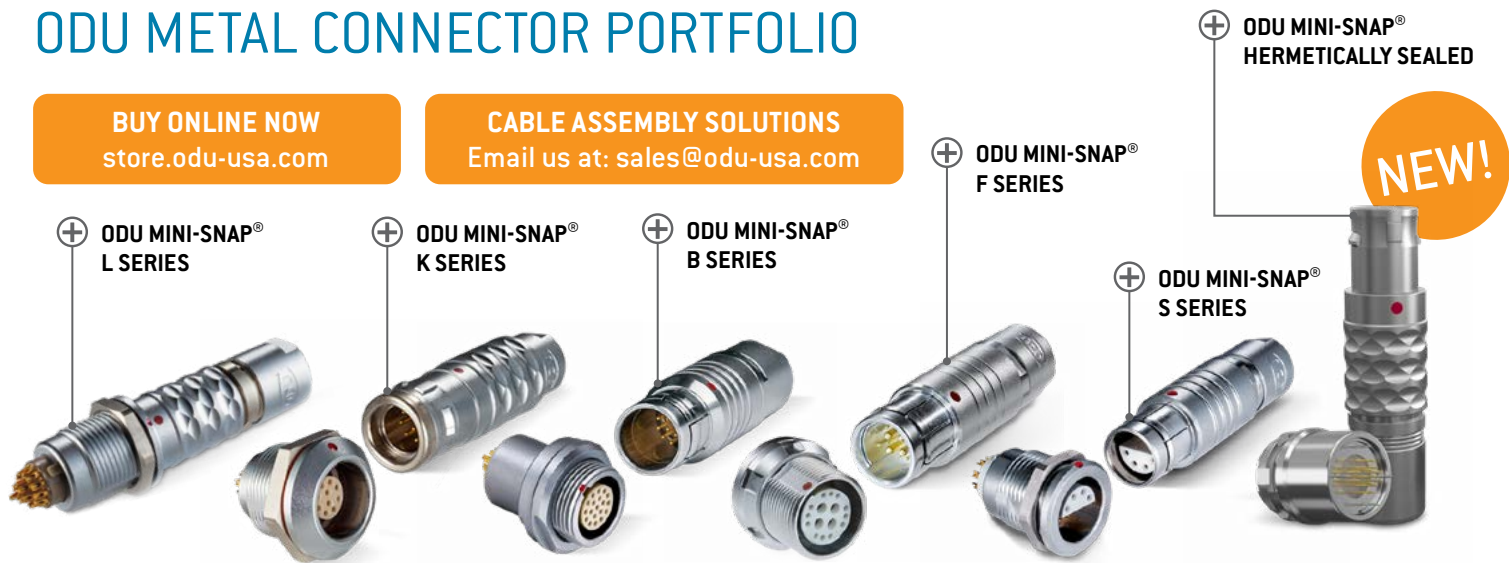
	Coding	Sizes	No. of possible mechanical coding	Diameter plug (mm)	Max. cable diameter (mm)	Max. no. of contacts	Solder	Crimp	Print	IP Class in mated condition	IP Class in unmated condition
ODU AMC® High-Density <ul style="list-style-type: none">70 % weight and size reductionCable assembly solutionsIP6K8 [20 m submersion]Chrome plated version availableUSB® 3.2 Gen 1x1¹ + USB® 2.0¹ + HDMI®¹ + Ethernet	Pin and groove	00	4	9.8	5.0	7	•	•	•	IP6K8	IP68
		0		12.8	7.0	16					
		1		14.8	8.5	27					
ODU AMC® High-Density Screw-Lock <ul style="list-style-type: none">High vibration resistanceHigh speed data transferIP6K8High contact density: 2–16 contacts / 2 sizes	Pin and groove	00	4	9.8	5.0	7	•	•	•	IP6K8	IP68
		0		12.8	7.0	16					
ODU AMC® Push-Pull <ul style="list-style-type: none">IP68 / IP6K9K> 5,000 mating cyclesHigh speed data technologyQuick and easy mating and locking	Pin and groove	0	4	14.0	5.5	10	•	•	•	Up to IP6K9K	IP68
		1		15.9	6.5	16					
		1.5		16.5	8.0	19					
		2		19.6	10.0	26					
		3		23.9	11.5	37					
		4.5		33.0	17.5	55					
ODU AMC® Break-Away <ul style="list-style-type: none">IP68 / IP6K9K> 5,000 mating cyclesHigh speed data technologyQuick and easy demating and locking	Pin and groove	0	4	11.9	5.5	10	•	•	•	Up to IP6K9K	IP68
		1		13.9	6.5	16					
		1.5		15.9	8.0	19					
		2		17.6	10.0	26					
		3		21.9	11.5	37					
ODU AMC® Easy-Clean <ul style="list-style-type: none">Fast and easy cleaningBreak-Away function> 5,000 mating cyclesContact inserts with pogo pins	Pin and groove	0	4	11.9	5.5	7	•	•	•	Up to IP6K9K	IP6K8
		1		13.9	6.5	16					
		1.5		15.9	8.0	19					
ODU THREADED CONNECTOR <ul style="list-style-type: none">High shock and vibrationSignal and powerIP6K8	Pin and groove	1.5	2	17.5	8.5	19	•	•	•	IP6K8	IP68
		3		24.9	12.8	26					








¹ These ODU specific connectors can transmit common data transmission protocols such as USB® 3.2 Gen 1x1, USB® 2.0 and HDMI®, but they are not USB®- or HDMI®-standard connectors.

ODU METAL CONNECTOR PORTFOLIO

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		Coding	Sizes	No. of possible mechanical coding	Diameter plug (mm)	Max. cable diameter (mm)	Max. no. of contacts	Solder	Crimp	Print	IP Class in mated condition	IP Class in unmated condition
ODU MINI-SNAP® L <ul style="list-style-type: none">IP505,000 mating cyclesHermetically sealed optionUSB® 3.1 Gen 1¹ + USB® 2.0¹ + Ethernet 		Pin and groove	00	4	6.4	3.5	04	•	•	•	IP50	Up to IP68
			0	8	9	5.6	10					
			1		11.5	7.7	16					
			2		14.5	9.9	26					
			3		17.5	11.9	30					
ODU MINI-SNAP® K <ul style="list-style-type: none">IP685,000 mating cyclesUSB® 2.0¹ + Ethernet 		Pin and groove	0	8	11.0	5.0	10	•	•	•	IP68	Up to IP68
			1		13.0	7.0	16					
			2		16.0	9.0	26					
			3		19.0	10.5	30					
			4		25.0	14.0	40					
ODU MINI-SNAP® B <ul style="list-style-type: none">IP685,000 mating cyclesUSB® 2.0¹ + Ethernet 		Pin and groove	0	8	9.4	5.0	10	•	•	•	IP68	Up to IP68
			1	9	12.0	7.0	16					
			2	10	15.0	9.0	26					
			3	13	18.0	10.5	30					
ODU MINI-SNAP® S <ul style="list-style-type: none">IP50 and IP68Coax and triax 		Insulator	0	1	9.4	5.0	04	•		•	Up to IP68	Up to IP68
			1		12.0	7.0	06					
			2		15.0	9.0	10					
ODU MINI-SNAP® F <ul style="list-style-type: none">IP50 and IP685,000 mating cyclesEthernet 		Half shell	0	3	9.4	5.0	09	•	•	•	Up to IP68	Up to IP68
			1		12.0	7.5	14					
			1.5		13.0	7.5	19					
			2		15.0	9.5	19					
			3		18.0	11.5	27					






¹ These ODU specific connectors can transmit common data transmission protocols such as USB® 3.1 Gen 1 and USB® 2.0, but they are not USB® - standard connectors.

ODU PLASTIC CONNECTOR PORTFOLIO

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		Coding	Sizes	No. of possible mechanical coding	Diameter plug (mm)	Max. cable diameter (mm)	Max. No. of contacts	Solder	Crimp	Print	IP Class in mated condition	IP Class in unmated condition
ODU MEDI-SNAP® PUSH-PULL	 <div>AVAILABLE IN 48 HR</div>	Pin and groove	1	6	13.7		14	●	●	●	Up to IP64	IP68
<ul style="list-style-type: none">• IP50 and IP64• Autoclavable & fully sterilizable• High voltage insert up to 1,000 V AC• IEC 60601-1 compliant housings¹• Right angle version available			2	3	18.5	9.2	26					
FAST SAMPLE AVAILABILITY Email us at: sales@odu-usa.com												
ODU MEDI-SNAP® BREAK-AWAY		Pin and groove	1	6	15.8	5.5	14	●			Up to IP67	IP68
<ul style="list-style-type: none">• IP64 / IP67• Autoclavable• Break-Away for minium of 2,000 mating cycles			2	1	18.3	11.5	26				Up to IP64	
ODU MEDI-SNAP® HIGH-VOLTAGE	 <div>NEW!</div>	Pin and groove	2	3	18.5	9.2	5	●			Up to IP64	IP50
<ul style="list-style-type: none">• Touch proof according to IEC-60664-1• Hot-Plugging prevention• 2X HV, 2X Signal interlock, 1X Ground/FMLB• Nominal voltage up to 1,000 V AC & 16 A												
ODU MINI-MED®		Pin and groove	1	1	11.5 / 11.2	4.4	6	●			IP67	IP50
<ul style="list-style-type: none">• Space saving design• Pre-assembled solution• Up to 1,000 mating cycles												
ODU MINI-SNAP® PC		Half shell	1	3	12.5	6.0	14	●	●	●	Up to IP67	IP50
<ul style="list-style-type: none">• Plastic connector• IP50 and IP67• Shielded version available			2		15.7	9.0	19					
			3		18.7	10.5	27					

¹ Up to 2 MOPP / 2 M00P

ODU MODULAR / RECTANGULAR CONNECTOR PORTFOLIO



100,000 mating cycles and more

ODU-MAC® Silver-Line
Automatic docking.



100,000 mating cycles and more

ODU DOCK Silver-Line
Automatic docking & robot systems.



100,000 mating cycles and more

ODU-MAC® White-Line
Manual mating.



10,000 mating cycles and more

ODU-MAC® Blue-Line
A new performance class.



NEW!

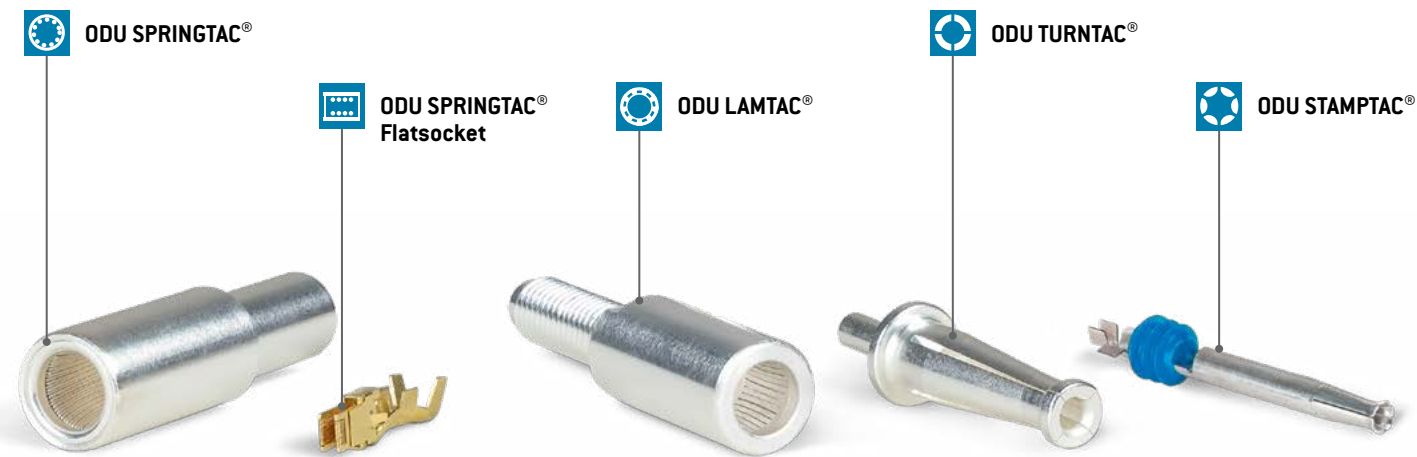
ODU-MAC® Blue-Line PUSH-LOCK
Easy one handed operation.

	ODU-MAC® Silver-Line	ODU DOCK Silver-Line	ODU-MAC® White-Line	ODU-MAC® Blue-Line	ODU-MAC® Push-Lock Blue-Line
Mating cycles	> 100,000	> 100,000	> 100,000	> 10,000	5,000
Mating principle	Automatic docking	Automatic docking	Manual mating	Manual mating, automatic docking	Manual mating
Automatic docking	6 Frame varieties, Quick-change head option	3 Sizes Quick change head option		1 Frame variety, 4 sizes	
Locking			Spindle / lever locking Snap-In [ZERO]	Spindle / lever locking	Push-locking
Housing	Metal frame	3 housing varieties available in plastic and metal	Available in plastic and metal	Available in plastic and metal	Plastic Plastic sleeve / Metal frame
Strain relief	•	•	•	•	•
Highest packing density on the market	•	•	•	•*	•
Non-magnetic version	•		•		

VARIETY OF MODULES

Signal	Up to 27 A / 1.5 mm²	Up to 27 A / 1.5 mm²	Up to 27 A / 1.5 mm²	Up to 33 A / 2.5 mm²	Up to 33 A / 2.5 mm²
Power	Up to 119 A / 16 mm²	Up to 119 A / 16 mm²	Up to 119 A / 16 mm²	Up to 58 A / 6 mm²	Up to 58 A / 6 mm²
High current	Up to 225 A / 50 mm²	Up to 225 A / 50 mm²	Up to 225 A / 50 mm²	Up to 225 A / 50 mm²	Up to 58 A / 6 mm²
High voltage	Up to 6.3 kV / 1.5 mm²	Up to 2.5 kV / 1.5 mm²	Up to 6.3 kV / 1.5 mm²	Up to 2.5 kV / 6 mm²	Up to 2.5 kV / 6 mm²
Coax	Up to 9.0 GHz	Up to 9.0 GHz	Up to 9.0 GHz	Up to 12 GHz	Up to 12 GHz
Compressed air	Up to 25 bar	Up to 25 bar	Up to 25 bar	Up to 16 bar	Up to 16 bar
Fluid	Up to 25 bar	Up to 25 bar	Up to 25 bar	Up to 16 bar	Up to 16 bar
Fiber optic POF / GOF	•	•	•	• (GOF only on request)	• (GOF only on request)
Transfer rates / high-speed	CAT 6 _A / USB ^{®1} / HDMI ^{®1}	CAT 6 _A / USB ^{®1} / HDMI ^{®1}	CAT 6 _A / USB ^{®1} / HDMI ^{®1}	CAT 6 _A / USB ^{®1}	CAT 6 _A / USB ^{®1}
Optional pin protection	Module can be freely positioned		Module can be freely positioned	Integrated with 20-pin signal module	Integrated with 20-pin signal module
Termination technology	Crimp / solder / print	Crimp / solder	Crimp / solder / print	Crimp / solder / print through PCB termination modules	Crimp / solder / print through PCB termination modules

ODU ELECTRICAL CONTACT PORTFOLIO



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	ODU SPRINGTAC®	ODU SPRINGTAC® Flatsocket	ODU LAMTAC®	ODU TURNTAC®	ODU STAMPTAC®
Contact technology	Springwire technology	Springwire technology	Lamella technology	Turned, slotted contacts	Stamping technology
Contact security	• • •	• • •	• •	•	• •
Contact diameter	From Ø 0.76 mm	From 0.64 x 0.64 mm	From Ø 1.5 mm	From Ø 1.5 mm	Ø 3 and Ø 6 mm
Mating cycles	> 100,000 (up to 1 million)	> 50,000	> 10,000	> 10,000	> 10,000
Operating temperature range	–40° C to +125° C	–40° C to +125° C	–40° C to +150° C	–40° C to +125° C	–40° C to +105° C
High temperature range	Up to +300 °C (on request)		Up to +150° C		
Surfaces	Ag / Au	Ag / Au	Ag / Au	Ag / Au	Ag / Au
Termination technologies	Crimp / screw / solder	Crimp	Crimp / screw / solder	Crimp / screw / solder	Crimp
Current (6 mm) per IEC 60512-5-2:2002	100 A		115 A – 145 A	100 A	
Angular misalignment	+/- 1°		+/- 1°	Up to 5°	+/- 1°
Contact material	CuSn alloy or CuBe		CuBe alloy	CuZnPb	CuSn alloy
Primary attribute	High mating cycles	Test & Measurement	High current	High volume	High volume
Points of contact	360° circular	Single or double sided	360° circular	1,2,4,6 Times circular	2,4,6 Times circular

ODU AUTOMOTIVE CONNECTOR SOLUTIONS



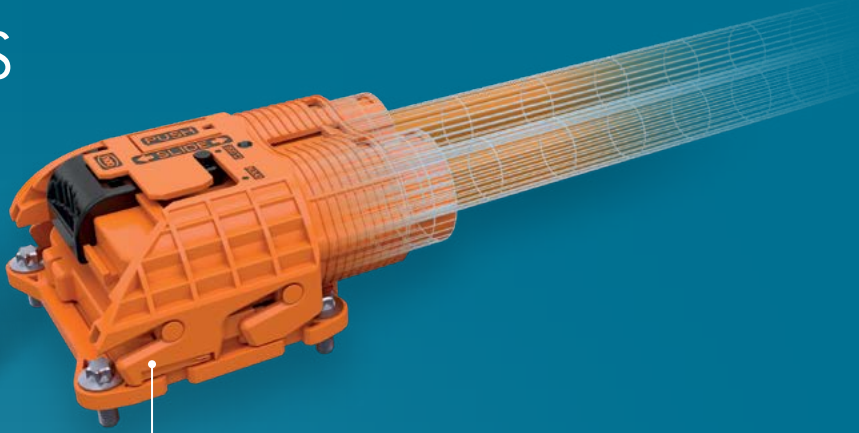
ODU DOCKING MATE®
Tolerance compensating connector systems enable a wide range of applications

- Compensation of tolerances up to +/- 5 mm possible
- Custom power & signal combinations available
- Ideal for hot swapping / blind mating applications



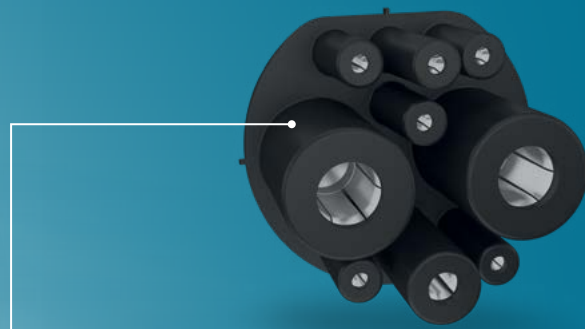
ODU GEN2 – 2 POLE HV CONNECTOR SYSTEM

- Trouble-free: Shielding attenuation > 60 db
- Tested: As per the requirements of LV215
- Sealing: IP6K9K sealing class



ODU POWER MATE® 400
Low Profile High Voltage

- Up to 400 A
- 1000 V
- Up to 95 mm² cable
- Extremely low profile
- Ideal for HV battery / inverter applications specifically where space is critical



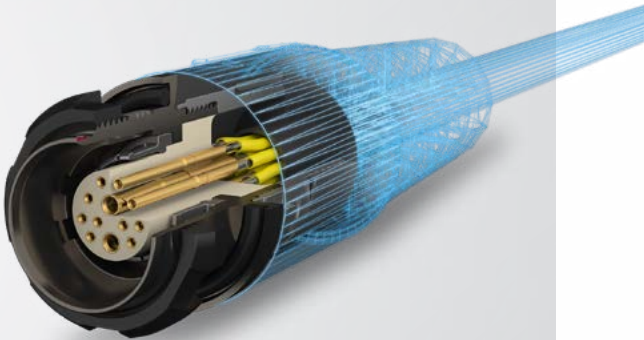
IEC CHARGING CONNECTOR

- Rugged ODU TURNTAC® contact system suitable for harsh environments
- Rated up to 10,000 cycles
- Mating possible at angle of up to 5° making this an ideal contact for charging applications
- Custom charging handles available upon request



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ODU CABLE ASSEMBLY SOLUTIONS & CONNECTORS FROM ONE SOURCE



OVERMOLDS WITH SILICONE, TPE, TPU & TPV



POTTING AND ENVIRONMENTAL SEALING



CUSTOM COMPONENT OVERMOLD
[Custom Requirement]

NON ODU CONNECTORS

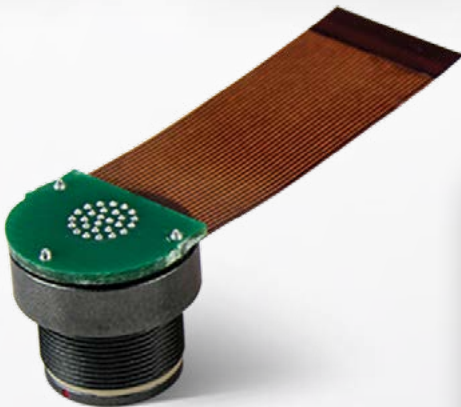
- High-speed standard connectors such as: USB® 3.2 Gen 1x1¹, USB® 2.0¹, HDMI®¹ and Ethernet CAT 5
- Military and medical connectors
- Wire to board connectors

¹ODU specific connectors can transmit common data transmission protocols such as USB® 3.2 Gen 1x1, USB® 2.0, and HDMI®, but they are not USB®- or HDMI® - standard connectors.

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FLEX LAYER ASSEMBLY



ODU TESTING & QUALITY



- In-process checking
- Data rate testing
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- Vertically integrated connector manufacturer

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- Various standard inserts available
- Halogen and latex-free



PREVENTION OF THE STICK-SLIP EFFECT



AUTOC LAVABILITY



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+ ODU NORTH AMERICA CAPABILITIES

- Environmentally controlled pressurized workroom
- Dedicated silicone overmold work area
- ARBURG-ALLROUNDER 275 V:
 - Vertical free-space system
 - Clamping force: 28 tones
 - Injection unit: 1.4 oz, 2.3 oz



+ ODU INTERNATIONAL CAPABILITIES



- Cleanroom EN ISO14644-1
- ISO 13485
- Tool shop customized molds
- Electroplating shop: The turned or stamped contact can be coated based on customer requirements
- On-site laboratory
- On-site technology test center

+ TEST AND VALIDATION

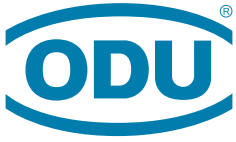
ISO 10993-5 CERTIFIED

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- Management system certified according to ISO 9001
- Documentation of tests available

- High-voltage and insulation tests
- Functional and component tests for cable systems
- Runtime measurement
- Tensile strength tests
- Torsional and bending fatigue tests
- Leakage tests for molded components

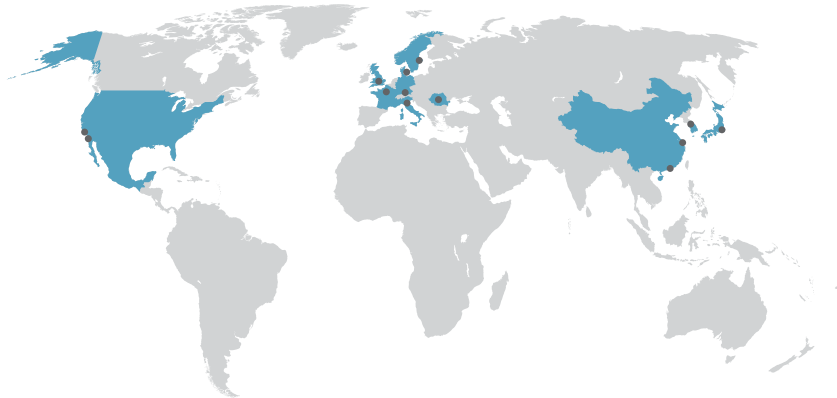
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www.odu.de

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