



A PERFECT ALLIANCE.

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INTERCONNECT SOLUTIONS

ODU

ODU, founded in 1942, is one of the leading international suppliers of connection systems. Our company employs 1,650 people around the world. The group of companies has its headquarters in Mühldorf am Inn, Germany. ODU also has production sites in Romania, USA and China.

• ODU AMC®



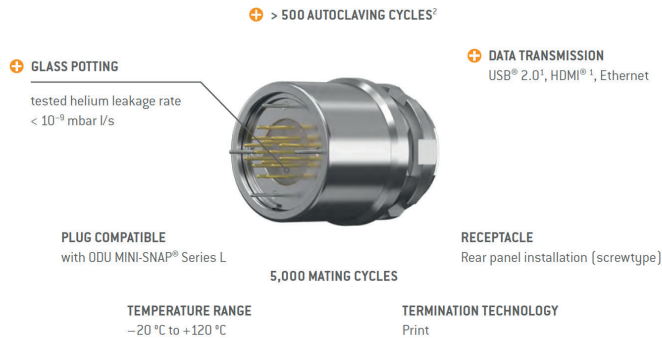
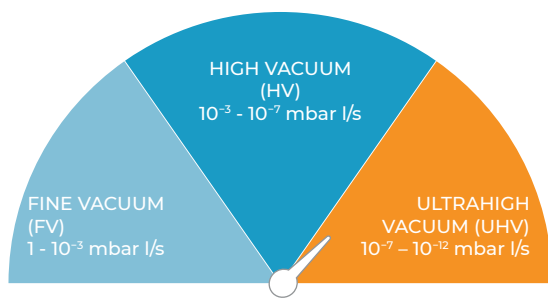
	ODU AMC® BREAK-AWAY	ODU AMC® PUSH-PULL	ODU AMC® EASY-CLEAN	ODU AMC® HIGH-DENSITY	ODU THREADED CONNECTOR
Mating cycles	Up To 5,000	Up To 5,000	Up To 5,000	Up To 5,000	Up To 2,000
Locking principle	Break-Away	Push-Pull	Break-Away	Break-Away	Screw Locking
Coding options (mechanical)	Pin/Groove	Pin/Groove	Pin/Groove	Pin/Groove	Pin/Groove
Coding options (optical)	Dot Marking, Color Coding	Dot Marking, Color Coding	Dot Marking, Color Coding	Dot Marking, Color Coding	Color Coding
Max. number of contacts	37	55	19	27	26
Transmission options	Signal, Data, Power	Signal, Data, Power	Signal	Signal, Data	Signal, Data, Power
Available termination technologies	Solder, PCB	Solder, PCB	Solder, PCB	Solder, PCB	Solder, PCB
Max. IP protection in mated condition	IP6K9K	IP6K9K	IP6K8 and IP6K9K	IP6K8	IP6K8

• ODU MINI-SNAP®



	ODU MINI-SNAP® PIN AND GROOVE CODING	ODU MINI-SNAP® HALF-SHELL CODING	ODU MINI-SNAP® CODING USING SPLIT INSULATORS
Mating cycles	> 5,000	> 5,000	> 5,000
Locking principle	Push-Pull	Push-Pull	Push-Pull
Coding options (mechanical)	Pin/Groove	Half-Shell	Insulator
Coding options (optical)	Dot Marking	Dot Marking	Dot Marking
Max. number of Contacts	40/30	27	10
Transmission options	Signal, Data, Power	Signal, Data, Power	Signal, Data
Available termination technologies	Solder, Crimp, PCB	Solder, Crimp, PCB	Solder, PCB
Max. IP protection in unmated condition	IP68	IP68	IP68
Max. IP protection in mated condition	IP50/IP68	IP68	IP68

Hermetic Sealing



ODU MINI-SNAP Hermetic Sealing Receptacles

	G80L0Q- PU5RF00-00V0	G80L0Q- PU5QF00-00V0	G81L0Q- PD8RC00-00V0	G81L0Q- PD8QC00-00V0	G82L0Q- P16RC00-00V0	G82L0Q- P16QC00-00V0
ø Panel cut-out	9.1 mm + 0.1	9.1 mm + 0.1	12.1 mm + 0.1	12.1 mm + 0.1	15.1 mm + 0.1	15.1 mm + 0.1
Number of contacts	5	5	8	8	16	16
Contact style	Pin	Socket	Pin	Socket	Pin	Socket
He leakage rate acc. to DIN EN 60512-14-2:2006	Tested at < 10 ⁻⁹ mbar l/s					
Insulator material	Glass + PEEK					
Data transfer protocol	USB® 2.0 ¹		Ethernet (CAT 5)		HDMI® ¹	
Data transfer rate	480 Mbit/s		1 Gbit/s		14.4 Gbit/s	
Single contact nominal current	4 A		3.8 A		4.2 A	
Nominal current insert	3 A		2.4 A		2.1 A	
Nominal voltage acc. to IEC 60664	10 V AC	7.5 V AC	32 V AC		32 V AC	

ODU Circular Plastic Connectors



	ODU MEDI-SNAP® PUSH-PULL	ODU MINI-SNAP® PC	ODU MINI-MED®
Mating Cycles	2,000/5,000	> 5,000	> 1,000
Locking Principle	Push-Pull / Break-Away	Push-Pull	Break-Away
Coding Options (Mechanical)	Pin/groove	Half-shell	Pin/groove
Coding Options (Optical)	Arrow marking, color coding	Arrow marking	Arrow marking
Max. Number Of Contacts	26	27	6
Transmission Options	Signal, power, fluids (liquids and gases)	Signal	Signal
Available Termination Technologies	Solder, crimp, PCB	Solder, crimp, PCB	Solder
Max. IP Protection In Unmated Condition	IP68	IP50	IP50
Max. IP Protection In Mated Condition	IP64/ IP67	IP67	IP67

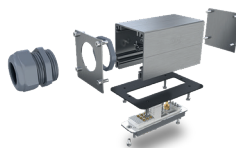
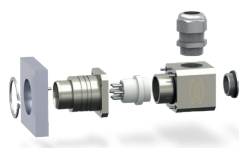
● Electrical Contacts



	ODU SPRINGTAC®	ODU LAMTAC®	ODU TURNTAC®	ODU SPRINGTAC® FLATSOCKET
Primary Attribute	High mating cycles	High temperature & current	Rugged	High mating cycles
Contact Technology	Springwire technology	Lamella technology	Turned, slotted contacts	Springwire technology
Reliability (Contact Points)	44 wire springs (size Ø 6 mm)	19 double contacting lamella louvres (size ø 6mm)	4 contact fingers (size Ø 6 mm)	30 wire springs (size □ 6.3 x 0.8 mm)
Nominal Current	100 A (size Ø 6 mm)	115 A (size Ø 6 mm)	100 A (size Ø 6 mm)	27 A (size □ 6.3 x 0.8 mm)
Angular Misalignment	+/- 1°	+/- 1°	+/- 5° *	
Mating Cycles	> 100,000	> 10,000	> 10,000	> 50,000
Temperature Range Standard Version	-40 °C to 125 °C	-40 °C to 150 °C	-40 °C to 125 °C	-40 °C to 125 °C
Temperature Range High-Temp. Version		on request		
Contact Size	from Ø 0.76 mm	from Ø 1.5 mm	from Ø 1.5 mm	from □ 0.64 x 0.64 mm
Standard Plating	Ag / Au	Ag / Au	Ag / Au	Ag / Au
Crimp Termination	●	●	●	●
Screw Termination	●	●	●	●
For Busbars (Through-Hole Design)	●	●		

*max. 5° misalignment in mounting position with corresponding design of the contact chamber.

● ODU MAC®



	ODU DOCK Silver-Line	ODU-MAC® Silver-Line	ODU-MAC® White-Line	ODU-MAC® Blue-Line
Mating Cycles	> 100,000	> 100,000	> 100,000	> 10,000
Mating Principle	Automatic docking	Automatic docking	Manual mating	Manual mating, automatic docking
Automatic Docking Option		7 frame varieties, individual length		1 frame variety, 4 sizes
Locking			Per spindle / Locking lever / Snap-In (ZERO)	Per spindle / Locking lever / Push-Pull (PUSH-LOCK)
Housing	3 housing varieties available in plastic and metal		Available in plastic and metal	Available in plastic and metal
Strain Relief Housing		●		●
Highest Packing Density On The Market	●	●	●	Highest packing density in the ODU-MAC® range
Non-Magnetic Version			●	
EMV-Protection	In metal housing	On module basis	On module basis	On module basis + PUSH-LOCK housing
Quick-Change Head Option	●	●		●