



CONNECTOR SOLUTIONS MILITARY APPLICATIONS

HDMI
ODU HIGH SPEED DATA TECHNOLOGY



SMALLER - LIGHTER - FASTER



odu-usa.com

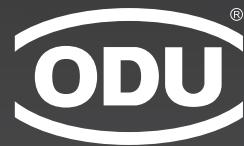
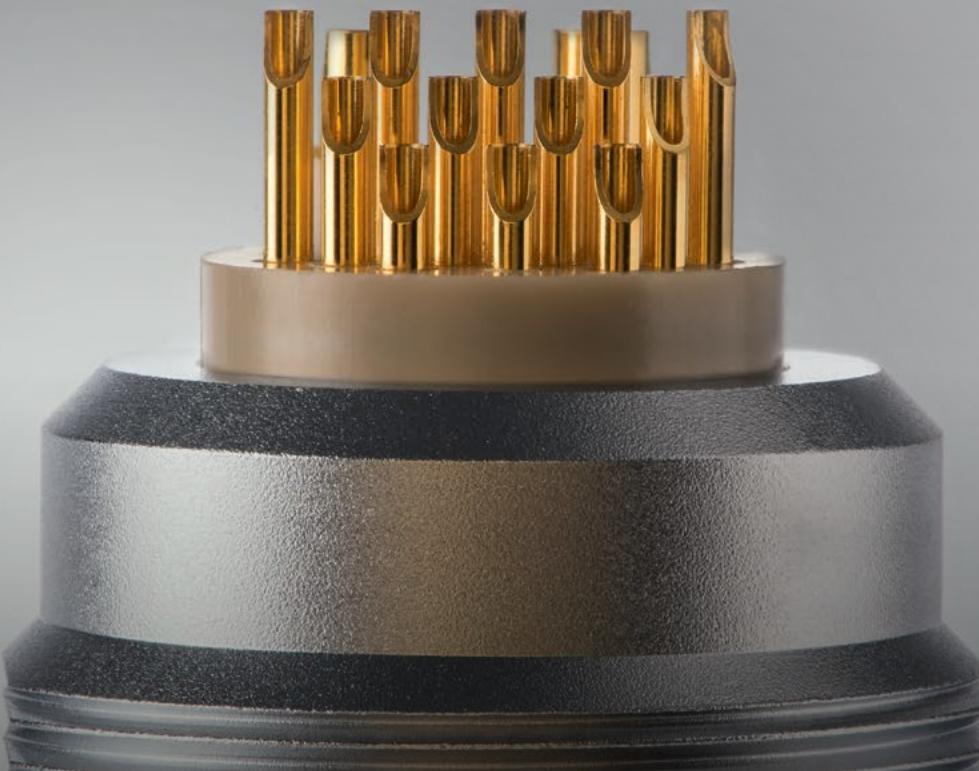
A PERFECT ALLIANCE

ODU GROUP OVERVIEW

- More than 80 years of experience in connector technology
- Over 2,500 employees worldwide
- Sales offices in China, Denmark, France, Germany, Hong Kong, Italy, Japan, Korea, Romania, Sweden, the UK and the US as well as 6 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, and automotive

As of February 2022



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.

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
- Rapid prototyping and production turnaround

ODU CONNECTORS APPLICABILITY

SOLDIER COMMUNICATION SYSTEMS

- 70 % weight and size reduction
- Up to IP6K9K



UNMANNED SYSTEMS: UAV/UGV/UAS

- High vibration resistance
- High-speed data transfer



MILITARY VEHICLES

- Shock and vibration resistant
- Ergonomic shape and rapid mate/demate capable



ODU MILITARY CONNECTORS

FAST SAMPLE AVAILABILITY

Email us at: sales@odu-usa.com



ODU AMC® EASY-CLEAN



ODU AMC® SERIES T ODU AMC® HIGH-DENSITY FLASH-DRIVE ODU AMC® HIGH-DENSITY SCREW-LOCK ODU AMC® HIGH-DENSITY BREAK-AWAY

NEW!



	Keying	Sizes	No. of possible mechanical keying	Diameter plug [mm]	Max. cable diameter [mm]	Max. no. of contacts	Solder	Crimp	Print	IP Class in mated condition	IP Class in unmated condition	Shell material	RoHS compliant	Operating temperature range	Advanced plating technologies for corrosion resistance	Coax transmission	Rapid cable assembly manufacturing	USB® 3.2 Gen 1x1 ¹	USB® 2.0 ¹	HDMI ^{®1}	Ethernet CAT 5 and 10 GBit Ethernet
ODU AMC® High-Density Break-Away	Pin and groove	00	4	9.8	5.0	7				Up to IP6K9K	IP68	Brass	●	-51 °C (-60 °F) to +125 °C (+257 °F)	●	●	●	●	●	●	
		0		12.8	7.0	16	●	●													
		1		14.8	8.5	27															
ODU AMC® High-Density Screw-Lock	Pin and groove	00	4	9.8	5.0	7	●	●	●	Up to IP6K9K	IP68	Brass	●	-51 °C (-60 °F) to +125 °C (+257 °F)	●	●	●	●	●	●	
		0		12.8	7.0	16															
ODU AMC® Push-Pull	Pin and groove	0	4	14.0	5.5	10				Up to IP6K9K	IP68	Aluminum	●	-51 °C (-60 °F) to +125 °C (+257 °F)	●	●	●	●	●	●	
		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	Pin and groove	0	4	11.9	5.5	10				Up to IP6K9K	IP68	Aluminum	●	-51 °C (-60 °F) to +125 °C (+257 °F)	●	●	●	●	●	●	
		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	Pin and groove	0	4	11.9	5.5	7				Up to IP6K9K	IP68	Aluminum	●	-51 °C (-60 °F) to +125 °C (+257 °F)	●	●	●	●	●	●	
		1		13.9	6.5	16	●	●	●												
		1.5		15.9	8.0	19															
ODU AMC® Series T	Pin and groove	9	4	18.4	7.6	10				Up to IP6K9K	IP68	Aluminum	●	-65 °C (-85 °F) to +175 °C (+347 °F)	●	●	●	●	●	●	
		18.5		21			●	●	●												
		21		24.2			●	●	●												
		24.2		24.9			●	●	●												
		24.9		26			●	●	●												
		26		14.6	18																

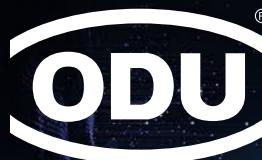
¹The contact arrangement of an ODU data transmission connector differs from a standard data transmission connector due to the robust ODU specific design. However, the ODU design meets the electrical specifications of the respective standard data transmission protocol.

ODU FIBER OPTIC

ODU AMC® SERIES T Expanded Beam Performance

NEW!

- Fiber types: Singlemode and Multimode
- Configurations: 2 to 12 fibers
- Outstanding optical performance



The ODU AMC® Series T Expanded Beam Performance

is an advanced fiber optic solution.

It offers high-end transmission characteristics over many mating cycles. The excellent optical performance remains unchanged even under mechanical stress, environmental influences and harsh ambient conditions.

MECHANICAL CHARACTERISTICS / ENVIRONMENTAL DATA

Mating cycles	2,000*
IP class in mated condition	IP6K8
Operating temperature	-40 °C to +80 °C
Vibration	MIL 810G 7.7 g
Cleaning	Every 5,000 mating cycles

* Contact transition allows up to 25,000 mating cycles.

Specifics of the connector series may deviate.

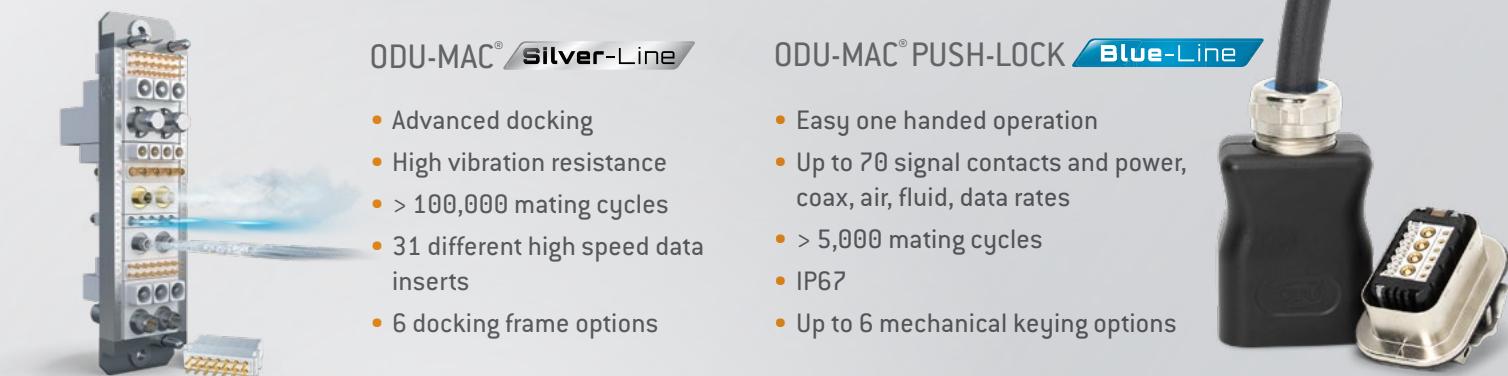
CABLE ASSEMBLY SOLUTIONS



ODU TESTING & QUALITY

- In-process checking
- Data rate testing
- 100 % final inspection
- EMC compatible assembly
- Potting and environmental sealing
- IPC/WHMA-A-620
- Production possible in cleanroom in accordance with EN ISO 14644-1

MODULAR / RECTANGULAR TECHNOLOGY



ELECTRICAL CONTACT TECHNOLOGY

- High precision contacts
- Fully customizable
- Low contact resistance
- High current carrying capacity





ODU GROUP WORLDWIDE



ODU USA

ODU-USA, Inc.

300 Camarillo Ranch Road, Suite A, Camarillo, CA 93012, United States of America
Phone: +1 805 484-0540, Fax: +1 805 484-7458, E-mail: sales@odu-usa.com

HEADQUARTERS

ODU GmbH & Co. KG

Pregelstraße 11
84453 Mühldorf a. Inn, Germany
Phone: +49 8631 6156-0
Fax: +49 8631 6156-49
E-mail: sales@odu.de
www.odu.de

PRODUCTION AND LOGISTICS SITES

Germany	Otto Dunkel GmbH
China	ODU [Shanghai] Connectors Manufacturing Co.Ltd
Mexico	ODU Mexico Manufacturing S.R.L. de C.V.
Romania	ODU Romania Manufacturing S.R.L.
USA	ODU North American Logistics

Further information and specialized
representatives can be found at:
www.odu-usa.com/contact



Simply scan the QR code
to download the entire brochure.

SALES LOCATIONS

ODU (Shanghai)

International Trading Co., Ltd.
Phone: +86 21 58347828-0
E-mail: sales@odu.com.cn
www.odu.com.cn

ODU (HK) Trading Co., Ltd.

Phone: +852 3963 9588
E-mail: sales@odu.hk
www.odu.hk

ODU Denmark ApS

Phone: +45 2233 5335
E-mail: sales@odu-denmark.dk
www.odu-denmark.dk

ODU France SARL

Phone: +33 1 3935-4690
E-mail: sales@odu.fr
www.odu.fr

ODU Italia S.R.L.

Phone: +39 331 8708847
E-mail: sales@odu-italia.it
www.odu-italia.it

ODU Japan K.K.

Phone: +81 3 6441 3210
E-mail: sales@odu.co.jp
www.odu.co.jp

ODU Korea Inc.

Phone: +82 2 6964 7181
E-mail: sales@odu-korea.kr
www.odu-korea.kr

ODU Romania Manufacturing SRL

Phone: +40 269 704638
E-mail: sales@odu-romania.ro
www.odu-romania.ro

ODU Scandinavia AB

Phone: +46 176 18262
E-mail: sales@odu.se
www.odu.se

ODU-UK Ltd.

Phone: +44 330 002 0640
E-mail: sales@odu-uk.co.uk
www.odu-uk.co.uk

All dimensions are in mm. Some figures are for illustrative purposes only. Subject to change without notice. Errors and omissions excepted. We reserve the right to change our products and their technical specifications at any time in the interest of technical improvement. This publication supersedes all prior publications. This publication is also available as a PDF file that can be downloaded from odu-usa.com