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PRESS RELEASE

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Revolutionary fiber optic product for medical technology

Camarillo, CA. ODU-USA. As a specialist for interfaces, ODU develops and produces individual systems as well as standard solutions for medical applications with highest requirements regarding performance and failure protection.

When exchanging information between different participants and devices; communication protocols form the basis, defining different framework conditions for data transfer.

In robot-assisted surgical systems, copper lines quickly reach their physical limits in terms of transmission speed with low latency. This is where fiber optic technology brings numerous advantages that are of vital importance in medical technology. These include:

- Transmission range
- Weight reduction
- EMC compatibility
- Scalability
- packing density

ODU's Expanded Beam Performance is an advanced fiber optic solution what offers high-end transmission characteristics with extremely low loss levels over many mating cycles. The outstanding optical performance remains unchanged even under mechanical stress, environmental influences and harsh ambient conditions.

Since there is no direct contact between the contact ends, Expanded Beam connections are insensitive to contamination and can be easily cleaned. Under normal conditions, cleaning is sufficient up to every 5,000 mating cycles. This ensures reliable transmission without any loss in the signal path.

The robust and very compact style allows configurations of up to twelve fibers on smallest installation space, for example in the ODU MEDI-SNAP®.

The ready-made fiber optic system solution is also available in the following connector series: ODU AMC® Series T, ODU MINI-SNAP® and ODU-MAC®.



For more information, visit <https://odu-connectors.com/technologies/fiber-optic/expanded-beam-performance/> or visit us at [Compamed](#) taking place Nov. 13-16, 2023, at Booth P19 in Hall 8A.

ODU Group: global representation with perfect connections

The ODU Group is one of the world's leading suppliers of connector systems, employing 2,600 people around the world. In addition to its company headquarters in Muehldorf a. Inn (Germany), ODU also has an international distribution network, production and product development sites in Sibiu/Romania, Shanghai/China, Tijuana/Mexico and Camarillo/USA. ODU combines all relevant areas of expertise and key technologies including design and development, machine tooling and special machine construction, injection, stamping, turning, surface technology, assembly and cable assembly. The ODU Group sells its products globally through its sales offices in Austria, China, Denmark, France, Germany, Hong Kong, Italy, Japan, Korea, Romania, Sweden, UK and the US, as well as through numerous international sales partners. ODU connectors ensure a reliable transmission of power, signals, data and media for a variety of demanding applications including medical technology, military and security, automotive, industrial electronics, and test and measurement