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PRESS RELEASE

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High-speed data technology in medical technology

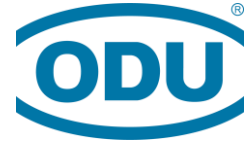
Camarillo, CA. ODU-USA. Permanent performance and high failure protection are of vital importance in medical technology. As a specialist for interfaces, ODU develops and produces individual systems as well as standard solutions for medical applications. From MRI-devices to endoscopy, the system solutions are developed according to the strictest regulations and applicable standards.

When exchanging information between different participants and devices; communication protocols form the basis, defining different framework conditions for data transfer. A distinction is made here between standardized network protocols such as TCP/IP and data transfer protocols such as HDMI® (High Definition Multimedia Interface) or USB® (Universal Serial Bus).

A suitable connection system is always an optimal interaction of three central components: connectors, termination technology and suitable cable. Only through connection with the appropriate cable and a process-safe connection can a connector meet the requirements of the respective customer application.

Depending on the application, standard interface plugs are often not sufficient, especially in medical technology. If the operating conditions are too demanding, for example due to vibrations, contamination or moisture.

ODU's promptly offers available and complete solutions in 100% tested quality at any length (within the frame of standard-compliant signal transmission), without any minimum order quantity.



Our data technology portfolio includes a variety of round and rectangular connectors for subsequent standard transmission protocols. Options include:

- Ethernet/IP®
- SPE
- USB®
- HDMI®
- DisplayPort®

In the medical technology industry, the requirements for an interconnection system are very high, as data transfer must take place without any restrictions or delays. Therefore, a tested system solution is the right choice here, as the professional and process-safe execution of the cable assembly is tested here on the basis of the respective protocol with regard to transmission properties and signal integrity. Here, ODU can guarantee the reliability of the cable assembly. ODU takes over the simulation of the entire transmission chain and provides complex system solutions that achieve the desired performance even under real conditions.

Any quantity and length

Through appropriate partnerships, ODU can offer its customers qualified standard assemblies (see catalog „[High-Speed Data Technology Cable Assemblies](#)“) starting with batch size 1 - fast availability is ensured by factory stocking.

The standard cable assembly is available in any length (within the frame of standard-compliant signal transmission), so that customers do not have to limit themselves to predefined dimensions.

Advantages of ODU cable assembly

Customers benefit from the following advantages with ODU Datentechnik cable assembly:

- Tested quality of the complete solution (data rates, attenuation, signal integrity, etc.)
- Fast availability
- Fair pricing (incl. cost reduction vs. individual acquisition)
- Length neutrality
- No minimum purchase quantity
- Development of exclusive and customized interfaces possible (even for samples or small series)
- Simulations and inspections already in the development phase
- Reduction of effort, as the supply chain is limited to one contact person and only one part number needs to be managed by the customer

For more information, visit <https://odu-connectors.com/technologies/data-technology/> 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