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PRESS RELEASE

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Small series overmolding for medical technology

Muehldorf a. Inn. 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. In applications where, high currents or temperatures act, high data rates are transmitted via copper or even fiber optic lines, and tightness is important, it is not enough to simply offer a high-quality connector and disregard the cable assembly. Only through connection with the appropriate cable and a process-safe connection can a connector meet the requirements of the respective customer application. If the complete solution comes from a single source, ODU can also guarantee the reliability of the cable assembly.

Custom overmolding

Over the past years, ODU has developed into a specialist for customer-specific overmolding.

From the connection of the connector to the cable, the options range from standard cable bend relief and thermoplastic overmolding to silicone overmolding for increased strain relief and bend protection. The tools are developed and manufactured at ODU for straight or angled designs are designed (depending on the application) for sample, small series or large series production. This means that even very small series can be produced without high tooling costs.

In the medical technology industry, for example, the silicone-molded system solutions are used because they enable absolutely resistant yet flexible connection of the cables to the connector. The silicone overmolding cannot be peeled off or detached even after the required autoclaving cycles (steam sterilization at up to 134 °C and 3,040 mbar). The biocompatibility with regard to the cytotoxicity test (outgassing) according to DIN EN ISO 10993-5 is generally confirmed by an external testing laboratory.



Advantages of ODU cable assembly

Customers benefit from the following advantages with ODU cable assembly:

- Tested quality of the complete solution (data rates, liability, etc.)
- Fast availability
- Fair pricing (incl. cost reduction vs. individual acquisition)
- Length neutrality (within the frame of standard-compliant signal transmission)
- No minimum purchase quantity
- Customized overmolding possible (even for samples or small series)
- 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/cable-assembly/> 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