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PRESS RELEASE

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Military vehicles - Functionality under extreme operating and environmental conditions

Military vehicles face a variety of challenges in the field. The missions are characterized by demanding environmental conditions as well as extreme weather conditions. Impassable terrain, different soil conditions, but also heat, cold, precipitation and dust must not impair performance. In addition, it must be possible for military units to network with each other. This requires the transmission of even higher data rates. Depending on the application and transmission distances, the use of optical fibers is unavoidable.

Complexity requires a multi-product solution for connectors

The requirements for the transmission of current, high voltage, data technology or fiber optics are so different that they usually cannot be integrated into one connector. Therefore, a multi-product solution is sought. ODU offers the advantage of a one-stop-shop. Standard cable assemblies are offered for various data technology protocols: USB, HDMI, Displayport or coax connector. Often, the connected subsystem is crucial. For this reason, for example does a reconnaissance device or other optotronics require high-frequency connectors that ensure connection to printed circuit boards. On the other hand, a HUB in the vehicle ensures data exchange via an Ethernet hub.

ODU-MAC® modular connector enables single-product solution

Nevertheless, there are applications that prefer a single-product solution. For example, in one of the most widely used Main Batteltank Systems (MBT), ODU products of the ODU-MAC® series (modular connectors) are used. Various modules from power transmission to data technology can be used, all of which are integrated into one interface. In this special



case, the modular connector transmits both: the supply voltages for a central electronic unit and the switching and control signals for the entire tower system.

Optimized for demanding applications

Connectors for military and security technology from ODU are robust, resistant and optimized for demanding applications. They ensure a fast and trouble-free flow of information thanks to a combination of flexible connections, compact dimensions and high speeds. The extreme resilience and transmission reliability of the connector solutions is guaranteed even under the most technically demanding environmental conditions.

Further information under <https://odu-connectors.com/industries/military/>

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 and production sites in Sibiu/Romania, Shanghai/China, and Tijuana/Mexico. 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 China, Denmark, France, Germany, Hong Kong, Italy, Japan, Korea, Austria, 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.