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PRESS RELEASE

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Field communication and power supply units in military applications: ODU-MAC® White Line ensures reliability and security in data transmission

Field communications and power distribution units (PDUs) play a critical role in controlling and distributing power and data in military applications. Data transmission between different field devices enables real-time acquisition, monitoring and control of data. Key requirements include reliability and resilience, real-time communication and interoperability, and robustness and security.

Requirements for field communication and PDUs in military applications

In the context of field communications, security and confidentiality are top priorities in addition to the above requirements. The data must meet the required security standards. Encryption of the data and protection against unauthorized access is required. As military units are on the move, mobility, ease of transport and rapid re-deployment of field communications and power distribution units are crucial.

Security and confidentiality in field communication

The ODU-MAC® White-Line is a high-quality, modular connector system. It is robust, vibration-resistant and meets the requirements of the military environment. Due to the easy handling, a secure connection can be established even in the dark or under stress. With the hybrid connectors of the ODU-MAC® product family, individual combinations of signals, power, high current, high voltage, RF signals (coax), media such as air or liquids, data rates and optical fibres are possible in just one interface.

The versatility of the ODU-MAC® White-Line

The connector modules can be selected as required and individually combined in line with



defined modular principles. ODU-MAC® high-current modules are suitable for use in power distribution units, for example. Ergonomic handling is ensured by the simple locking options such as snap-in, spindle or longitudinal and crossbar locking. In particular, the ODU-MAC® spindle locking is characterised by its intuitive handling and high reliability. The portfolio is rounded off by a variety of plastic and metal enclosures.

Data-intensive applications and high-speed transmission with ODU-MAC®

Depending on mission requirements, data-intensive applications such as access to geoinformation, satellite images or sensor data may be required. High-resolution live video transmissions or emergency communications are also possible. High bandwidth and fast data transmission rates are crucial here. The ODU-MAC® White-Line offers more than 30 high-speed inserts for the transmission of common data protocols. The contacts used in the ODU-MAC® White-Line are self-cleaning, ensuring consistently low contact resistances.

The requirements and challenges faced in field communications and power supply units are highly dependent on the specific applications in which they are used. In any case, however, reliability and fail-safety are of utmost importance, as failures can have serious consequences.

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.