

PRESS CONTACT

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PRESS RELEASE

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ODU MEDI-SNAP®: We control high-voltage New high-voltage connector enables reliable HV measurements

Measurement and testing in the areas of e-mobility batteries, solar and high-voltage in general must be carried out while fulfilling the appropriate safety requirements in order to protect the user. There are many connectors on the market that are specified for measuring up to 1 kV AC/DC. However, the selection of possible connector solutions becomes significantly reduced if you want to carry out measurements between 1 kV and 1.6 kV AC/DC. One challenge here is to fulfil DIN EN IEC 61010-2-030:2022-11 / VDE 0411-2-030:2022-11. This becomes even more difficult if you have further restrictions on the available installation space for the connector. In particular, compliance with the necessary creepage and clearance distances (at least 32 mm and 22 mm respectively) between the contact and touchable parts is of enormous importance. These creepage and clearance distances must also take into account the operating conditions and environment. Measurements are not generally carried out in an air-conditioned and sterile environment. It is therefore important to know the permissible pollution degree (PD) of the connector.

All necessary safety requirements for up to 1.6 kV AC/DC fulfilled

The ODU MEDI-SNAP® 1.6 kV AC/DC in size 1 meets these requirements for PD 2 and offers further advantages: a long service life, easy handling with a push-pull locking mechanism, together with color and mechanical keying to prevent mismatching of plugs and sockets.

Safe mating also includes touch protection, which is not always provided by alternative breakaway connectors on the market. However, this is particularly important in areas above 1000 volts. The connector also has protection class IP64.

The ODU MEDI-SNAP® with push-pull locking provides haptic feedback when mating but also prevents unintentional unplugging. This makes it convincing in all the main criteria compared to conventional solutions on the market. ODU MEDI-SNAP® connectors are defined without breaking capacity (COC) according to IEC 61984:2008 (VDE 0627:2009-11). The MEDI-SNAP® for 1.6 kV is available in orange as standard as a signal

color for high-voltage.

Wide range of high-voltage application areas

With the new high-voltage connector, ODU is serving an important market segment in which the results of battery tests, among other things, are used in research to further improve the products.

The MEDI-SNAP® for 1.6 kV can be inserted not only for battery tests. Other areas include automotive testing, battery storage, high-voltage measurements in laboratory environments and photovoltaics. ODU offers the MEDI-SNAP® 1.6 kV as a customer-friendly set with mechanical and color coding.

[Product Finder](#)

ODU Group: global representation with perfect connections

The ODU Group is one of the world's leading suppliers of connector systems, employing 2,800 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, 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.