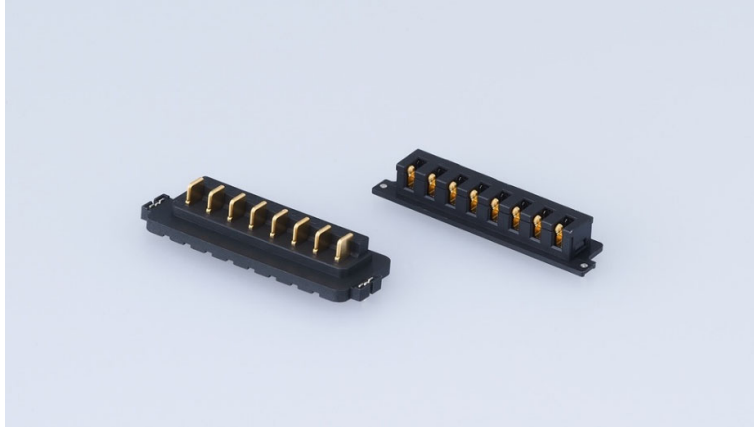


**Development of a Compact Waterproof Two-Piece Connector with 20% Reduced Height While  
Maintaining High Vibration and Shock Resistance**



Yokowo Co., Ltd. (Headquarters: Chiyoda-ku, Tokyo; President: Takayuki Tokuma) has developed a compact waterproof two-piece connector (TBC) that is approximately 20% lower in height compared to conventional products. Sample products will be available from March.

Due to the rapid advancement of AI technology, electronic devices are being used in various environments such as homes, offices and factories, regardless of indoor or outdoor settings. In addition to high performance, miniaturization and decentralization are also progressing rapidly.

Edge AI devices, wearable devices, mobility-related devices, and industrial IoT devices are required to maintain reliable power and signal connections in increasingly limited spaces. Conventional waterproof TBCs are primarily used for battery pack connections in mobile devices, but their applications are expected to expand to a wide range of markets and industries.

Yokowo's TBC is a two-piece connector consisting of a plug and a receptacle, which fit together. The company's unique floating structure with two contact points provides excellent vibration and shock resistance, and the patented receptacle contact shape absorbs slight misalignments of up to  $\pm 0.3\text{mm}$  during mating.

In addition to the contact's followability to vibration and shock, the waterproof performance prevents water intrusion in rainy environments and washing processes. By reducing the number of parts in the conventional receptacle connector's components and internal structure, the height has been reduced by 20% while maintaining the basic characteristics and features.

As devices become thinner and smaller, the height and occupied volume of connectors are important factors that influence design flexibility. This contributes to the miniaturization and weight reduction of the entire set, expanding the design options for product development.

Yokowo's "Compact Waterproof Two-Piece Connector" will provide new value as a "compact, waterproof connector that connects reliably and easily even in harsh environments."

## &lt;Reference&gt;

## ■ Product Specifications

Test Item	Specification	Measurement Condition
Rated Current	12V 3A	-
Contact Resistance	30mΩ Max.	-
Insulation Resistance	1000mΩ or more	DC500V for 1min
Withstand Voltage	Leakage current 3mA or less.	AC500V for 1min
Durability	2,000 insertions/extraction cycles	Contact resistance 60mΩ or less
Waterproof Performance	1.5m underwater for 30 mins	No water intrusion
Environmental Resistance	Equivalent to conventional products.	Equivalent to conventional products.

## ■ Manufacturing Location

Planned: China Factory (Dongguan Youhua Automotive Parts Co., Ltd.)

(Note) The information in this news release is current as of the date of the announcement. It may be subject to change without notice. Please be aware of this in advance.

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