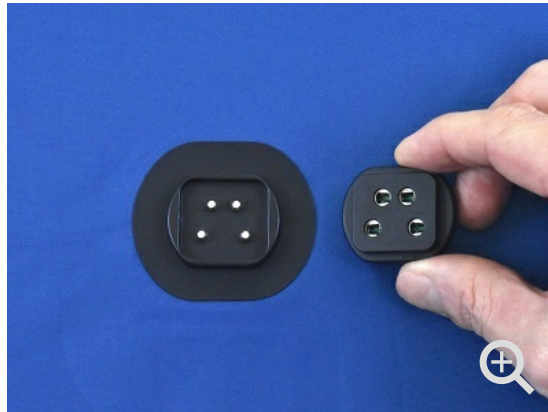


RK01 Series (Smart Textile Connector)

Smart Textile Connector



The popularity of wearable devices is expected to grow as new technological innovation allows for remote monitoring and diagnosis of an aging society with longer life expectancy and lower birthrate. In particular, smart clothing, which is made from smart textiles using conductive fibers and other materials, is expected to be a major driver of innovation and market growth. Smart clothing can collect more advanced information at a medical level, such as electrocardiography and whole-body motion, which is difficult to achieve with other devices such as smart watches. With smart clothing becoming increasingly sophisticated with more sensors and wiring for simultaneous sensing of multiple biological information and detailed motion sensing, precise and stable high pin count connections to the transmitter and power supply are more important. In addition to a reliable connection while the transmitter is connected, it is necessary that the connection is easy to attach and detach regularly to allow washing of the clothing and replacement of batteries. Amid expectations for the use of smart textiles in the medical / health care, home monitoring, and sports fields, we have commercialized and launched the RK01 Series connector for smart textiles.

Features

- Washable in a home washing machine (When transmitter is detached)
- Proprietary contact structure which allows for multiple circuits to be attached and detached in one action
- Highly versatile: supporting a wide variety of conductive materials and pin counts
- Waterproof when the transmitter is mated

Applications

For products in various markets using smart textiles, such as smart clothing

Documents

Links

- [Featured 2021/02/12 | Connector Solutions for Wearable Equipment](#)

General Specifications

Number of Contacts	2 positions or more
Contact Resistance	Initial: 1 ohm max., After test: 5 ohm max.
Durability	500 times
Wash Test	JIS L 1930 (C4G)
Operating Temperature Range	-20 deg. C to + 50 deg. C

Notice

1. The values specified in this web site are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products.

For purchase, a product specification must be agreed upon.

2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.

3. The products presented in this web site are designed for the uses recommended below.

We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:

* Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:

Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster evention equipment, etc.

*We may separately give you our support with a quality assurance program that

you specify, when you think of a use such as :

Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

*Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc