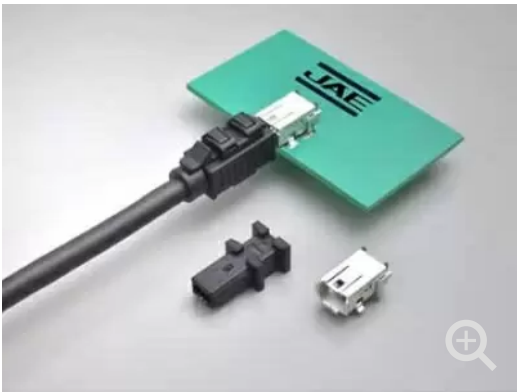


# DZ02 Series (Compact I/O Connector for Safety Equipment Connection of Industrial Applications)

## 1.27 mm Pitch Compact I/O Connector for Safety Equipment Connection of Industrial Applications



This connector is compliant with IEC61076-3-122 (TYPE-I) product standard which is based on an international standard for functional safety. The DZ02 Series is used as a STO (Note) cable to connect a controller unit (servo amplifier) with safety equipment. The DZ02 connector series contributes to space saving inside the equipment with the miniaturized 1.27mm pitch design. It also features a locking mechanism with excellent vibration resistance and operability.

Note) STO (Safe Torque Off): a function that cuts the power supplied to the motor through signal sent from a safety device.

### Features

- Safety connectors, Compliant with IEC61076-3-122 (TYPE-I)
- Lock structure with superior vibration resistance.
- Supports SMT mounting with excellent coplanarity. (Receptacle)
- Structure that prevents solder flux scattering by covering bottom surface of contact area with an outer shell. (Receptacle)
- Supports automated mounting with an embossed tape for receptacle.

### Applications

Servo amplifiers, motion controllers, PLCs (programmable logic controller), and other industrial equipment

### General Specifications

Number of Contacts	8 positions (2 rows x 4 positions)
Rated Current	0.5 A/position
Rated Voltage	AC 30 Vr.m.s.
Contact Resistance	Plug mating: 40 milliohm max., Short-circuit plug mating: 80 milliohm max.

<b>Insulation Resistance (Individual Connector)</b>	500 megohm min. (DC 100V applied voltage)
<b>Dielectric Withstanding Voltage (Individual Connector)</b>	AC 250 Vr.m.s. (1 minute)
<b>Operating Temperature Range</b>	-40 deg. C to +85 deg. C (including temperature rise due to conduction)
<b>Durability</b>	Plug mating: 1,500 times, Short-circuit plug mating: 1,000 times

**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