

# JL10 Series (One-touch/ Screw Compatible Waterproof Connector)

## One-touch/ Screw Mating Compatible Circular Waterproof Connector

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The JL10 Series are TÜV approved and UL recognized, one-touch locking, circular, waterproof connectors for industrial machinery, satisfying European safety standards.

The adopted one-touch lock mechanism has a superior mating and unmating operability and the product contributes to mating function ease.

The JL10 receptacle offers a hybrid one-touch lock and threaded dual function mating. The connector offers mating compatibility with conventional MIL standard MS connectors and with our screw mating plugs (JL04V, N/MS, and JA).

On top of the existing solder termination, a crimp termination option has been added to the 18-10 and 22-22 pin arrangement receptacles.

## Features

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- Utilizes a one-touch bayonet lock style mating to allow secure mating even in narrow operating spaces or areas with poor visibility.  
Superior connector operability improves mating and unmating function (reduced screw-down fastening, and eliminating torque control).
- JL10 Receptacle is an one-touch / screw mating hybrid type.  
One-touch mating: When mated with JL10 plug  
Screw mating: MIL-standard MS connector and our standard N/MS-A/B Series, JL04V Series, JA\*A Series using J1 type plug.
- Receptacle's cable connection is available as soldering termination (for all receptacle) and crimp termination (for pin arrangements 18-10, 22-22 and 32-17)
- With guide mark (color: White) on JL10 Series receptacle and plug, mating assurance can be confirmed by sight.
- Low-profile compact design, and direction of the cable leader of angled type can be set in arbitrary 8 orientation in 45 degrees increments.
- Same cable clamp as used for JL04V Series.
- UL recognized and TÜV approved product.
- IP67 waterproof and dustproof  
For the receptacles there are individually waterproof (denoted as -2E) and waterproof in mated condition (denoted as -2A).
- Superior environmental performance against vibration and oil.

# Applications

Industrial machineries, Servo motors, Robots, Semiconductor-fabrication equipment, Communication devices, Measuring devices, Broadcasting and Various other equipment.

## General Specifications

<b>Number of Positions</b>	4, 6, 9, 17, 19, 22, 37 positions
<b>Arrangement, (Contact Size X No. of Contacts)</b>	18-10 (#12*4)、 18-A6 (#12*4, #20*2)、 20-4 (#12*4)、 20-18 (#12*3, #16*6)、 20-29 (#16*17)、 22-14 (#16*19)、 22-22 (#8*4)、 22-A6 (#8*4, #20*2)、 24-11 (#8*3, #12*6)、 28-11 (#12*4, #16*18)、 28-21 (#16*37)、 32-17 (#4*4)
<b>Rated Current (Per Contact)</b>	#20: 1 A max., #16: 13 A max., #12: 23 A max., #8: 46 A max., #4: 80 A max.
<b>Dielectric Withstanding Voltage (1 minute)</b>	2000 VAC, #20: 500 VAC
<b>Insulation Resistance</b>	1000 megohm min. (DC 500V energized)
<b>Waterproof Performance</b>	IP67
<b>Durability Mating Cycles</b>	500 mating cycles

### 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