

# JN14 Series (Waterproof Connector for Compact Servomotors)

All-plastic, Low-profile, Waterproof Connector for Compact Servomotors



As robotics and other industrial machinery becoming increasingly compact, multi-axis, and multi-functional, the installation space allotted for devices such as servomotors are rapidly decreasing. There is particular demand for low-profile connectors that can be thread mounted directly to the box casing of metal shell type compact servomotors.

Receptacle and plug mating of the JN14 Series is simple yet secure, where the plug is screw mounted to the box casing over the receptacle. In spite of its compact form-factor and low-profile the connector offers exceptional connection and waterproof performances. The connector series was designed with superior and ease of assembly and harnessing with secure mounting condition, as well as having a 180 degree reversible cable exit structure to suit the user's orientation preference.

The JN14 Series line-up includes a 4-position connector for power, 2-position connector for brakes and 9-position connector for encoders, all compatible with the specification of an I/O connector for compact servomotors larger than 40mm x 40mm. The 4-position power receptacle is equipped with a threaded hole for secure mounting, where the screw is also connected to the ground contact allowing for grounding directly to the metal box casing. The 2 and 9 position receptacles snap-in securely with ease by top-mounting directly to the metal box casing of the servomotor.

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## Features

All-plastic, light-weight and low-cost connector.

Low-profile screw mounting connector with superior connection strength, with resistance to shock and vibration while being waterproof.

IP67 rated waterproof in the mated condition.

Structure which enables automatic ground connection by screw directly to the metal box casing.

Plug hood structure that allows user preferred cable exit orientation.

Compatible with TÜV, UL/ cUL recognized.

## Documents

### Links

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## General Specifications

Number of Contacts	4 position (for power), 2 position (for brakes), 9 position (for encoders)
Rated Current	4 position: 7 A/position max., 2 position: 1 A/position max., 9 position: 1 A/position max.
Rated Voltage	4 position: 240 VAC, , 2 position: 100 VAC, 9 position: 100 VAC
Dielectric Withstanding Voltage	4 position: 1,500 VAC, 1-minute, 2 position: 500 VAC, 1-minute, 9 position: 500 VAC, 1-minute
Insulation Resistance	4 position: 1,000 megohm min., 2 position: 100 megohm min., 9 position: 100 megohm min.
Applicable Wire Specification	4 position: 22-18 AWG, 2 position: 28-22 AWG, 9 position: 28-22 AWG
Applicable Cable Diameter	4 position: 6.6 mm to 7.0 mm, 2 position: 3.6 mm to 4.8 mm, 9 position: 6.6 mm to 7.0 mm
Waterproof Performance	IP67 (in mated condition)

<b>Durability Mating Cycles</b>	50-cycles
<b>Operating Temperature Range</b>	-40 deg. C to +125 deg. C

### Notice

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For purchase, a product specification must be agreed upon.
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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.

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

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