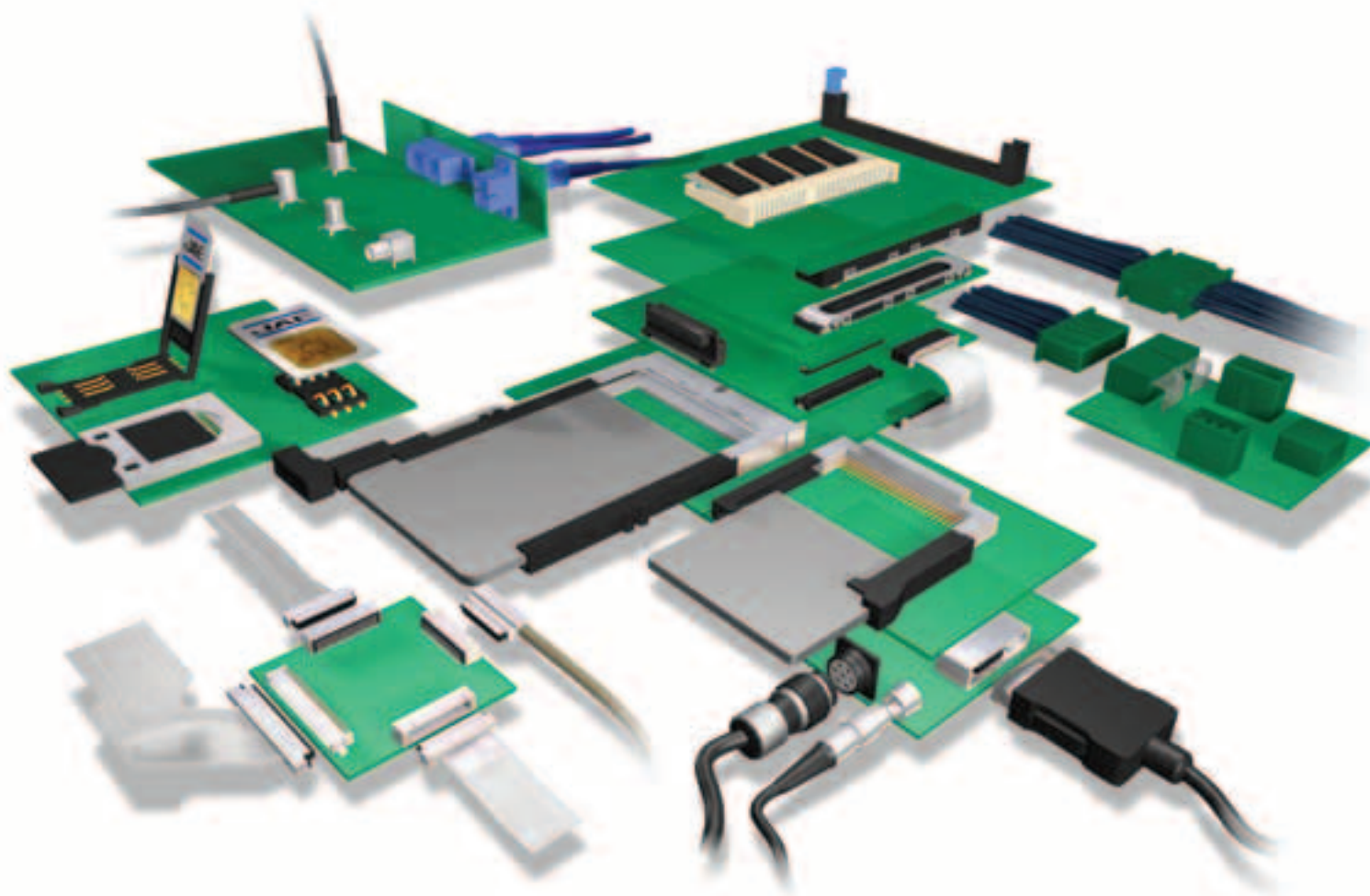


Technology to Inspire Innovation

# ***Preferred Connector Products***

# **JAE**



***JAE Electronics, Inc.***

***For Additional Information Visit [www.jae-connector.com](http://www.jae-connector.com)***

**J**apan Aviation Electronics Industry, Ltd. (JAE) is an international manufacturer and supplier of electronic components and systems. For over four decades, JAE has provided the electronics industry with solutions to complex design requirements. Since its founding, the Company has strived to contribute to society through market-driven, technology-based global business operations under the philosophy: "Technology to Inspire Innovation."

With worldwide and world-class manufacturing certified to ISO 9001 and QS 9000, JAE has made the commitment to meet the global requirements of our customer. In addition to a network of state of the art manufacturing facilities, JAE has technical service offices located around the world, staffed with experts in connector design and application.

This catalog contains a select overview of JAE Connector Products. For in-depth information on our complete product line, and information on new developments, visit JAE's online catalog at [www.jae-connector.com](http://www.jae-connector.com).

Innovative design, quality oriented manufacturing, commitment to our customers and sensitivity to the environment assures JAE's leadership position in the 21<sup>st</sup> century.

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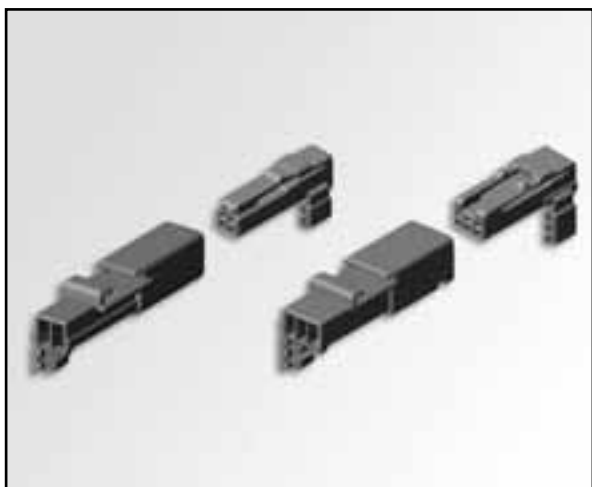
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this catalog are made for the applications specified. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information. Recommended Applications: Computers, Office Machines, Measuring Devices, Telecommunications Devices (Terminals, Mobile Devices) AV Devices, Household Applications, FA Devices, etc.
- Refer to end of catalog for alphabetical index of products.

## IL-AG9 SERIES CONNECTORS

## ***2.50mm (.098") Contact Spacing, Compact Relay Connector for Vehicles***



## FEATURES

- A 2.5mm pitch compact relay connector with a small number of contacts uses the existing 025 contact tab size (0.64 x 0.64) IL-AG5 terminals
- Structure with a key to prevent twisted mating, mis-mating or reverse insertion
- Mechanical lock method for withstanding vibration and pulling. The lock strength is enhanced to withstand loads using a double-holding spring
- The housing has a built-in double hook mechanism to prevent contacts from being inserted or partially removed
- Socket contacts have a contact reliable double spring mechanism. The outer form is a box shape capable of withstanding external forces
- A nylon clip can be attached to the pin housing. The height and width are short so that the connector can be mated through a small hole

● ● ● ● ● ● ● ● ● ● ● ● ● ●

JAE has developed a compact relay connector with a small number of contacts (2 to 3 contacts). The terminal tab size is a small 025 size, and a nylon clip can be attached to the pin housing. Furthermore, the connector is equipped with a hinge type double hooking mechanism to prevent incomplete terminal insertion and removal. The contacts of IL-AG5 can be used as terminals.

## GENERAL SPECIFICATIONS

|                       |                              |
|-----------------------|------------------------------|
| Number of Contacts    | 2, 3 pos.                    |
| Contact Spacing       | 2.50mm (.098")               |
| Contact Resistance    | 10 milliohm max. (initial)   |
| Withstand Voltage     | 1000VAC r.m.s for one minute |
| Operating Temperature | -40°C to +85°C               |
| Rated Current         | 3A                           |
| Insulation Resistance | 100 megohm min. (initial)    |
| Rated Life            | 50 Cycles                    |

### ***Applicable Wire***

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| Cable Type                 | AV, AVS, AVSS / AVS, AVSS                       |
| Cross Section of Conductor | 0.3 to 0.5mm <sup>2</sup> / 0.85mm <sup>2</sup> |
| A.W.G. No.                 | #22 to 20 / #18                                 |
| Sheath Diameter            | 1.4dia. to 2.4dia. mm                           |

## MATERIALS AND FINISHES

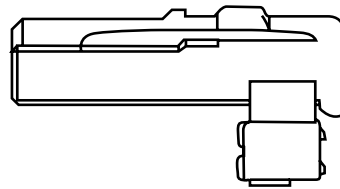
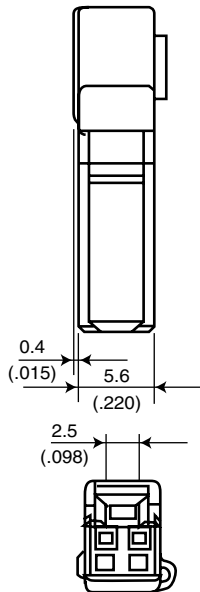
|                   |                             |
|-------------------|-----------------------------|
| Component         | Materials/Finishes          |
| Insulator         | PBT/ Color: green           |
| Relay Pin Contact | Copper Alloy/Tin Plating    |
| Socket Contact    | Phosphor Bronze/Tin Plating |

Consult JAE for "Ordering Information".

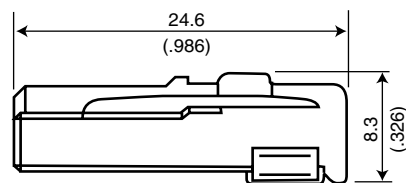
# IL-AG9 SERIES CONNECTORS

**2.50mm (.098") Contact Spacing, Compact Relay Connector for Vehicles**

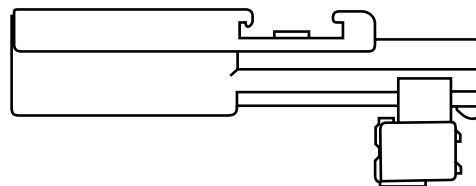
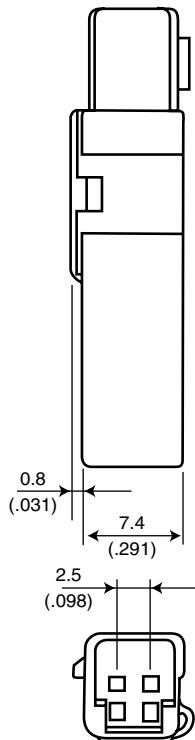
1) 2 contact socket housing (IL-AG9-2S-S3C1)



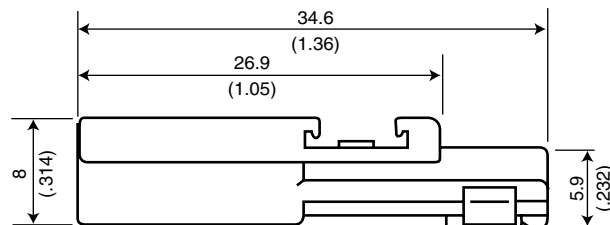
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2) 2 contact relay pin housing (IL-AG9-2P-S3C1)



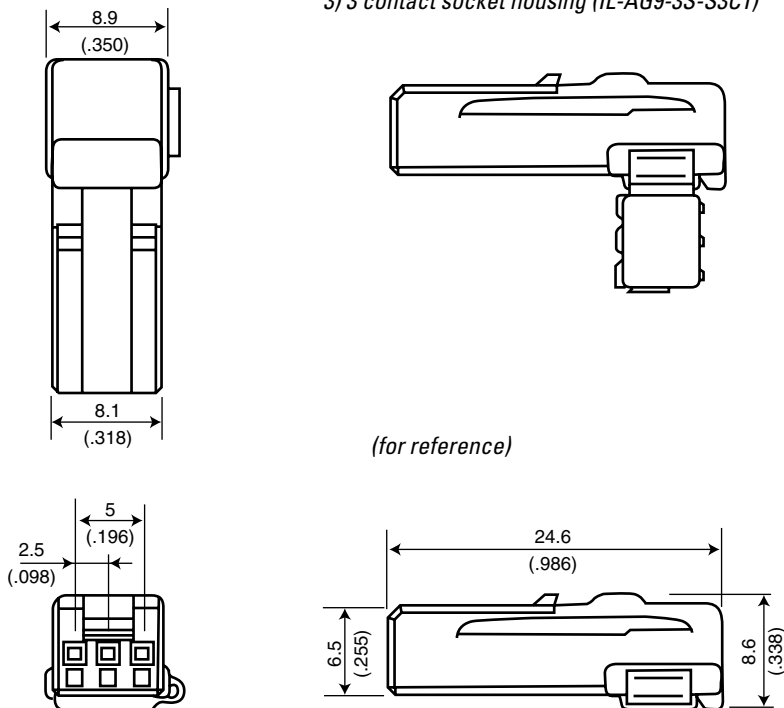
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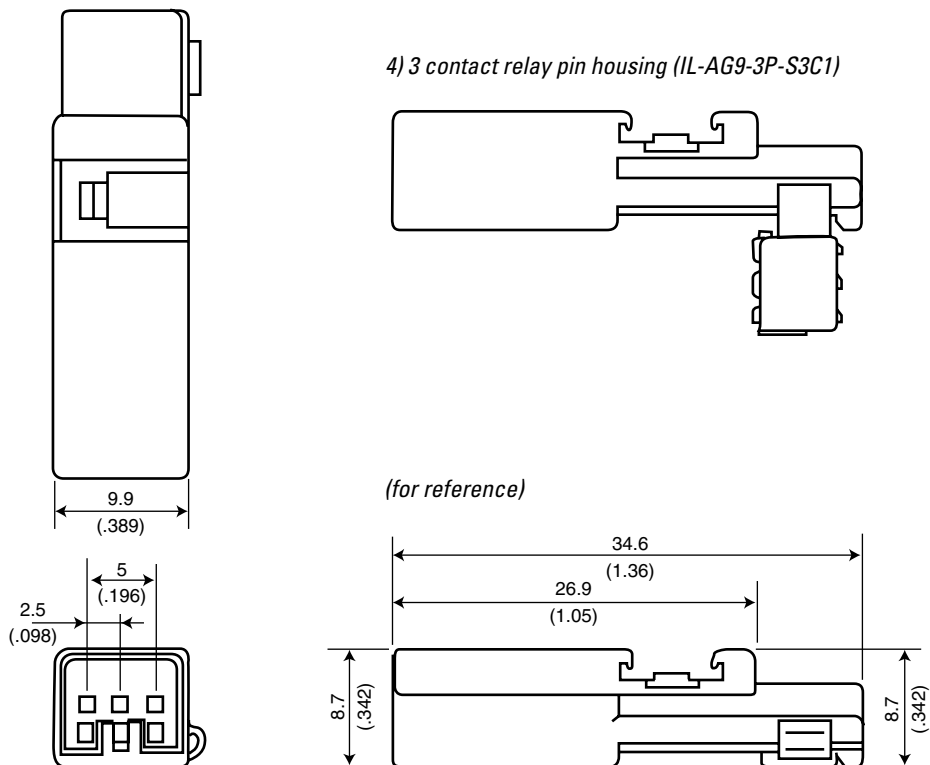
# IL-AG9 SERIES CONNECTORS

## 2.50mm (.098") Contact Spacing, Compact Relay Connector for Vehicles

3) 3 contact socket housing (IL-AG9-3S-S3C1)



4) 3 contact relay pin housing (IL-AG9-3P-S3C1)





Technology to Inspire Innovation



***"Building Technologies  
to Connect Your World"***



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