

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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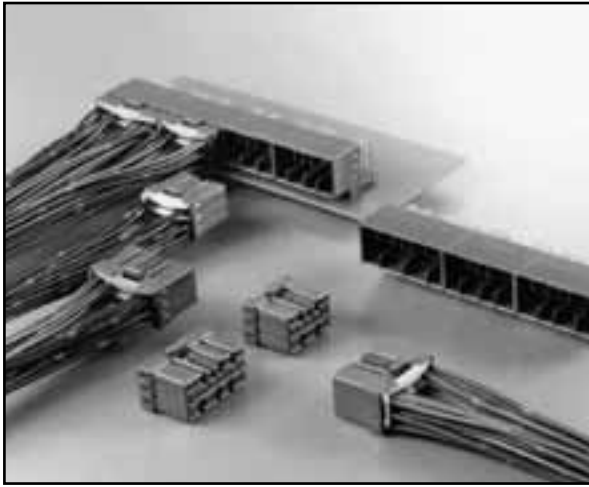
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this 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.

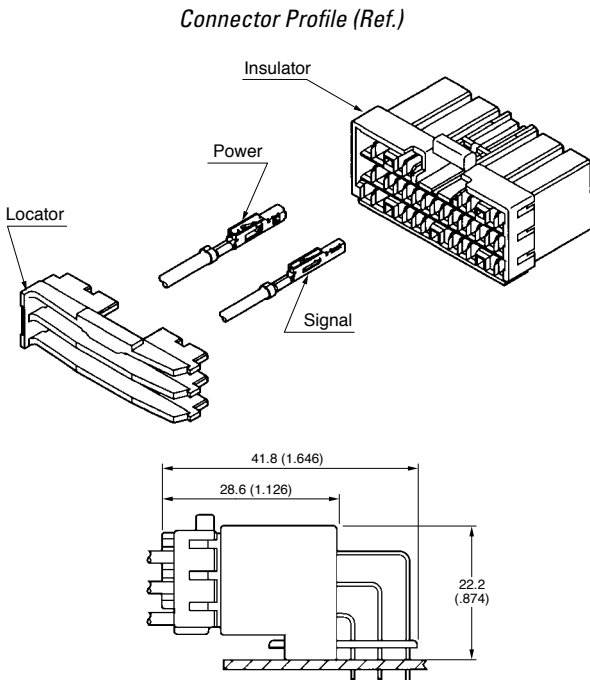
# MX7 SERIES AUTOMOTIVE CONNECTORS

## 025 Crimp Contacts, PCB-to-Cable Connectors



### FEATURES

- Signal contacts (5 Amps) and Power contacts (7 Amps) are housed in the same connector
- Mechanical lock assures positive mating
- Double locking mechanism prevents contact from dislodging
- Several wire terminated sockets are coupled with a pin header mounted on a board
- Designed for Engine Control Unit



Dimensions in mm (inches).



### GENERAL SPECIFICATIONS

Number of Contacts	Pin: 35, 48, 93, 109, 119 Socket: 20, 26, 28, 30, 35
Contact Spacing	Signal: 2.3mm (.091") Power: 3.0mm (.118")
Current Rating	Signal: 5 Amp, per contact Power: 7 Amp per contact
Dielectric Withstanding Voltage	1000 VAC r.m.s. (for one minute)
Insulation Resistance	100 megohms min.
Contact Resistance	3 milliohms max.
Operating Temperature	-40°C to +85°C
Applicable PCB Thickness	1.6mm (.063")

### Applicable Wire (Stranded)

Contact Type	Signal		Power
	AVS	AVSS	AVS, AVSS
Wire Type JIS			
Conductor Cross Section Area	0.3~0.5mm <sup>2</sup>	0.3~0.85mm <sup>2</sup>	0.5~1.25mm <sup>2</sup>
AWG	#22-#20	#22-#18	#20-#16
Insulation Outer Diameter	ø1.4~ø2.1mm (ø.055~ø.083")		ø1.6~ø2.6mm (ø.063~ø.102")

### MATERIALS AND FINISHES

Description	Materials/Finishes
Insulator	Glass-filled PBT (Dark Gray)
Socket	PBT (Dark Gray)
Insulator	Glass-filled PPS (UL94V-0) Black
Locator	Glass-filled PBT (Dark Gray)
Pin Contact	High Conductive Copper Alloy/Tin Plating or Gold (Connecting points)
Socket Contact	High Conductive Copper Alloy/Tin Plating or Gold (Connecting points) with Solder (Tin-Lead terminal area) Plating over Nickel
Retainer	Glass-filled PBT (20 Position: White, 26/35 Position: Light Blue, 28 Position: Orange, 30 Position: Green)

Note 1: Insert the number of gold plated contact for Power and Signal contacts  
P\*The Number of Power Contacts  
S\*The Number of Signal Contacts

- The above shows the general group of products. Please contact JAE Customer Service when placing an order.
- Suggested screws:  
M3 tapping screws (2 or 4 grade) per JIS B1115, 1122 or 1123
- Drawing shown is for 35 positions. The stacking design varies according to the number the positions.

Consult JAE for "Ordering Information".



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# JAE

***“Building Technologies  
to Connect Your World”***



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