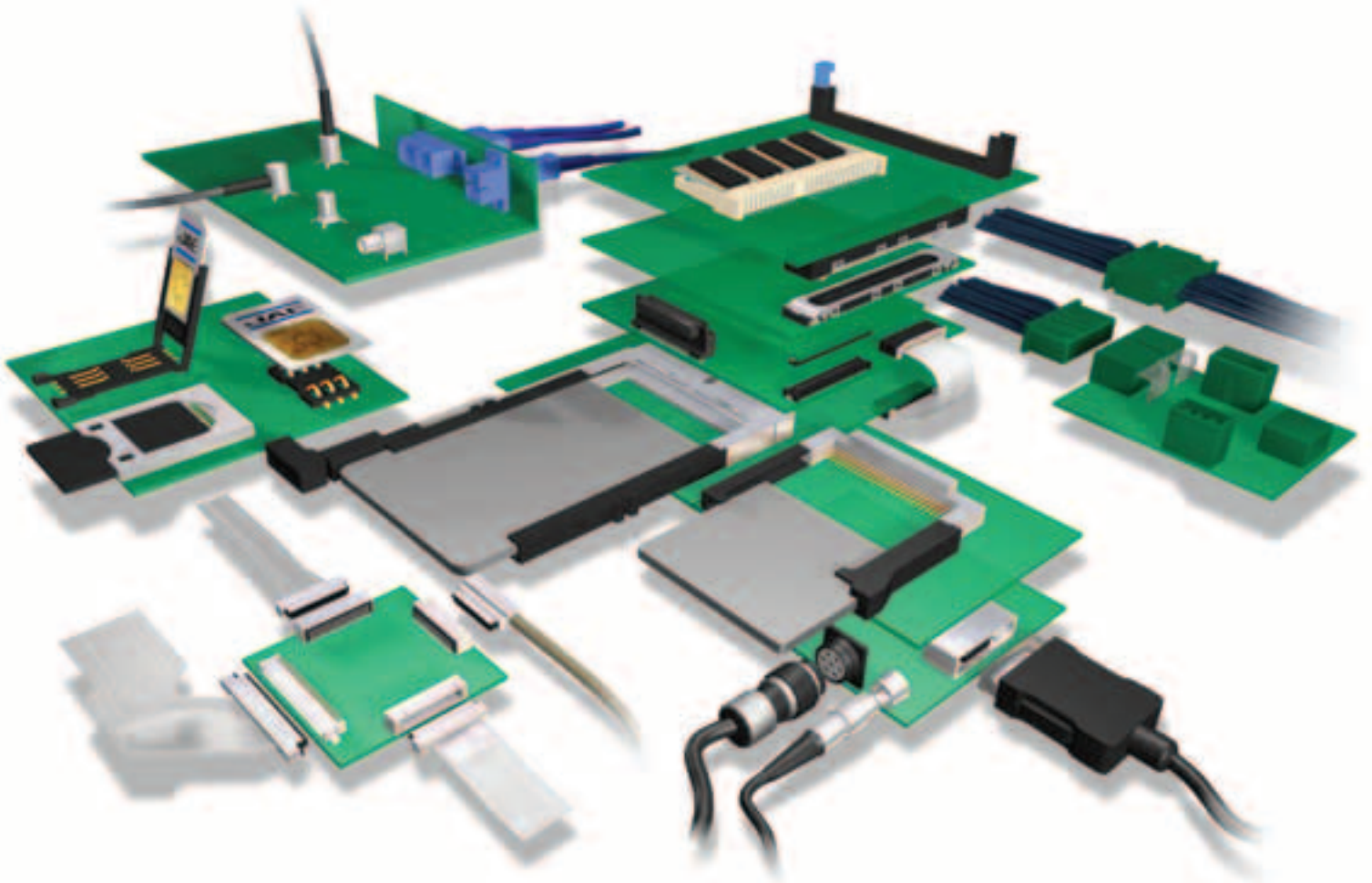


Technology to Inspire Innovation

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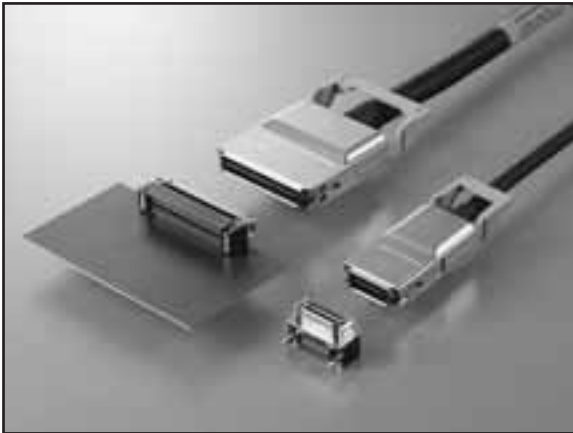
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this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

# DG1 SERIES CONNECTORS

0.50mm (.020") Contact Spacing, Infiniband Trade Association™ Compliant Connector and Cable Assemblies

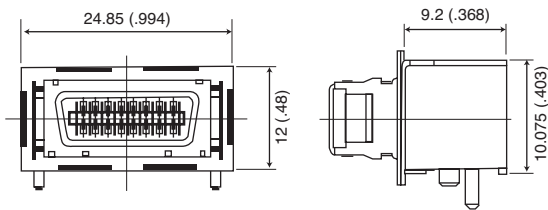


## FEATURES

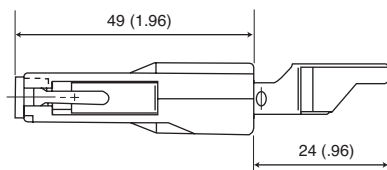
- 4X and 12X interconnects meet and exceed IBTA performance requirements
- Two step locking system provide audible, tactile, and visual positive mating indicators
- One piece panel locking clip provides a stable and secure 360° panel interface that is easy to install and improves EMI performance
- Receptacle rear shield cover and fingered locking clip available for applications requiring higher EMI performance.\*
- Lead free

Connector Profile (Ref.)

### •Receptacle



### •Plug



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DG1 Series connectors is a high speed, balanced transmission, IBTA compliant external interconnect system for servers, switches, routers, and storage systems.

## GENERAL SPECIFICATIONS

Number of Contacts	25 for 4X / 73 for 12X
Contact Spacing	0.50mm (.020")
Current Rating	0.5A
NEXT	Less than 4%
Dielectric Withstanding Voltage	500VDC per minute
Insulation Resistance	1000 megohm max.
Contact Resistance	Initial: 80 milliohms (max.) After Test: >20 milliohms
Operating Temperature	-25°C to +70°C
Transmission speed	DC - 5 Gbps+
Mating durability	250 cycles

## MATERIALS AND FINISHES

Description	Materials/Finishes
<b>•Receptacle</b>	
Base Insulator	Glass filled LCP (UL94V-0)
Shell	Steel/Nickel
Signal contact	Copper Alloy Connecting area: Gold over Nickel (Gold 76µ in min. (.030")) Terminal area: Tin-Lead
Ground contact	Copper Alloy Connecting area: Gold (76µ in min. (.030")) Terminal area: Tin-Lead
Lock plate	Steel over Tin
EMI Gasket	Stainless steel
<b>•Plug</b>	
Back shell	Zinc/ Nickel
Lock spring	Stainless steel
Lanyard	Polycarbonate (UL94V-0)
Screw	Steel / Nickel
Insulator	Glass filled LCP (UL94V-0)
Signal contact	Copper Alloy Mating area: Gold over Nickel (Gold 76µ in min. (.030"))
Ground contact	Copper Alloy Mating area: Gold over Nickel (Gold 76µ in min. (.030"))
Paddle card	FR4
Cable clamp	Copper Alloy / Nickel
Ring	Copper Alloy / Nickel

Dimensions and specifications subject to change without notice.

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# JAE

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



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