

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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- 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.

# DV2 SERIES CONNECTORS

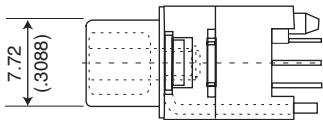
1.905mm (.075") Contact Spacing, EMI Shielded Connector for DVI



## FEATURES

- Interface connector per DVI (Digital Visual Interface) standardized by DDWG (Digital Display Working Group)
- Digital and Analog/Digital versions
- Impedance control, and low cross talk
- Capable of transmitting high-speed video signals
- Receptacle options:  
Right Angle: 9.9mm (0.39") high on board  
Straight: 4.98mm/ 10.5mm/ 11.5mm (0.20"/ 0.41"/ 0.45") high on board  
Right Angle with ground plate structure soldered terminal length 3mm (0.12")
- Ground plate receptacle versions for improved impedance matching
- Plug shell has grounding dimples, which provide excellent EMI shielding
- Available in Single Link cable harness, with excellent transmission characteristics

Connector Profile (Ref.)



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The DV2 Series was designed to meet the needs for high performance digital/analog interface between computer graphics input devices and the computer monitor. The DV2 supports Transmission Minimized Differential Signaling (TMDS), and conforms to the Digital Visual Interface (DVI) standard of the Digital Display Working Group (DDWG).

## GENERAL SPECIFICATIONS

Number of Contacts	Digital: 24 signal Analog/Digital: 24 signals, 5 coax
Contact Spacing	1.905mm (.075")
Current Rating	1.5 Amp per contact
Dielectric Withstanding Voltage	500 VAC r.m.s. (for one minute)
Contact Resistance	20 milliohms max. (Initial) 30 milliohms max. (After stress)
Applicable Wire Size	Signal Contact: #28 AWG Coax Contact: #30 AWG 750 Hm RGB Coaxial Cable
Operating Temperature	-20°C to +85°C

## MATERIALS AND FINISHES

Description	Materials/Finishes
Insulator	PBT (white, UL94V-0)
Location Plate	Nylon 6-6
Shell	Steel, Tin plating
Signal Contact	Copper connecting area: Gold 1µm min. over Nickel Terminal Area: Tin-Lead plating
Coaxial Contact	Inner contact: Beryllium Copper Ground contact: Phosphor Bronze Connecting area: Gold 1µm min. over Nickel Terminal area: Tin plating
Earth Lug	Brass, Tin plating
Screw Lock	Steel, Tin plating

Dimensions and specifications subject to change without notice.

# DV2 SERIES CONNECTORS

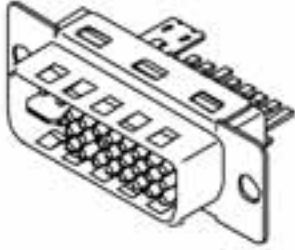
1.905mm (.075") Contact Spacing, EMI Shielded Connector for DVI

## ORDERING INFORMATION

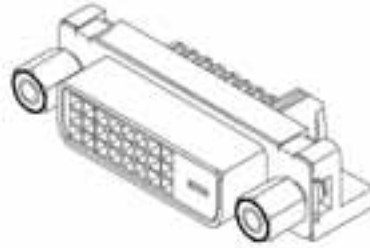
Series	DV2	*	***	***	E
Contact Type					
P	– Plug				
R	– Receptacle				
No. of Contacts					
024	– 24 signal contacts				
029	– 24 signal, 5 coaxial				
Mounting Method					
NKA	– Right angle, screwlock, soldered terminal length 3.33mm, ground plate				
NKB	– Right angle, without screwlock, soldered terminal length 3.33mm, ground plate				
N11	– Right angle, screwlock, solder terminal length 2.34mm				
N12	– Right angle, without screwlock				
N13	– Right angle, screwlock, solder terminal length 3.33mm				
U11	– Straight receptacle, screwlock, mounting height 4.98mm				
U12	– Straight receptacle, screwlock, mounting height 10.5mm				
U13	– Straight receptacle, screwlock, mounting height 11.5mm				
U16	– Straight receptacle, without screwlock, mounting height 11.5mm				
M11	– Cable plug				
Lead Free Version					

# DV2 SERIES CONNECTORS

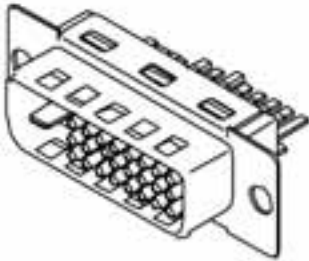
1.905mm (.075") Contact Spacing, EMI Shielded Connector for DVI



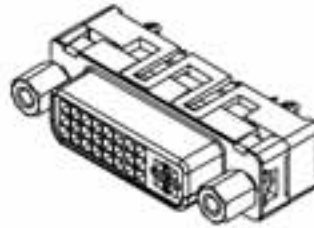
DV2P029M11  
(DVI-I Plug)



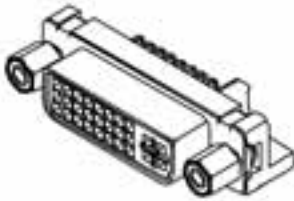
DV2R024N1\*  
(DVI-D Right Angle  
Receptacle)



DV2P024M11  
(DVI-D Plug)



DV2R029U1\*  
(DVI-I Straight Receptacle)



DV2R029N1\*  
(DVI-I Right Angle  
Receptacle)



DV2R024U1\*  
(DVI-D Straight  
Receptacle)



DV2\*\*R\*\*\*NK\*  
DVI-D, DVI-I  
Right Angle Receptacle with  
Ground Plate Structure



DV2S\*\*\*\*\*  
DVI-D  
Single Link Harness  
on both sides

Dimensions and specifications subject to change without notice.



Technology to Inspire Innovation

# JAE

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



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