

HDMI™ 2.1 Compatible Category 3 Connector

CONNECTOR

DC04 Series

MB-0345-3

June 2020

RoHS Compliant

Recently, interface connectors compatible with higher speed data transmission and bandwidth are being required in the audiovisual market to support higher resolutions and faster refresh rates.

The DC04 Series is an HDMI Category 3 approved connector family supporting new HDMI 2.1 formats such as 4K120Hz, 8K60Hz, and dynamic HDR. These connectors have been designed to meet or exceed signal integrity requirements to give the best end user experience.

Note 1) HDMI (High-Definition Multimedia Interface) is a registered trademark of the HDMI Licensing Administrator Inc.

Applicable Markets

Audiovisual applications such as TV's, monitors, projectors, AV receivers and soundbars, set-top boxes, BD players, gaming system, digital cameras, graphics cards, and video boards

Features

- **HDMI Category 3 approved connectors (supporting 48Gbps bandwidth)**
- Reduced crosstalk by optimizing the position of each channel's terminals
- Impedance characteristics improved with molded-in contacts
- Enhanced robustness with original structure of shell tip
- Contact tip in mating area is protected by insulator for improved reliability

General Specifications

Number of Contacts	19 positions
Dielectric Withstanding Voltage	AC 500V r.m.s
Rated Current	0.5A
Insulation Resistance	100 MΩ min.
Operating Temperature	-20°C ~ +85°C

Product Line-up

Available in a line-up of products; without flange that are ideal for slim devices, and with flange that are suited for EMI shielding with enhanced robustness by fixation to case.

Type A Receptacle		Part Number	Drawing Number	Specifications
Without Flange	Individual Product	DC04S019JA1	SJ120821	JACS-30402 J AHL-30402
	Reeled Product (600 pcs. per reel)	DC04S019JA1R600	SJ120822	
Without Flange (different shell length)	Individual Product	DC04S019JA2	SJ121230	
	Reeled Product (600 pcs. per reel)	DC04S019JA2R600	SJ121231	
With Flange	Individual Product	DC04S019JAA	SJ121498	
	Reeled Product (200 pcs. per reel)	DC04S019JAAR200	SJ121499	

Note) Sold only as a reeled product.

Materials and Finishes

Components	DC04S019JA1/2	DC04S019JAA
Insulator	Heat-resistant plastic	Heat-resistant plastic
Contact	Copper alloy / Au plating over Ni	Copper alloy / Au plating over Ni
Shell	Copper alloy / Ni plating	Stainless steel / Sn plating

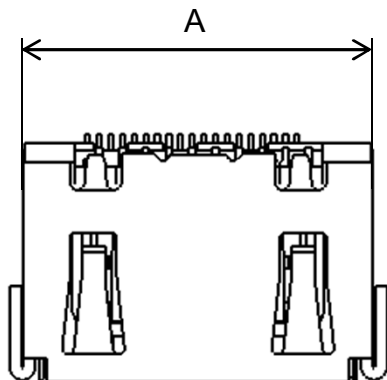
Ordering Information

DC04		S	019	J	A	*	R***
Series DC04: HDMI 2.1		Connector Type S: On-board standard receptacle		Number of Contacts: 019 positons		Board Connection Type J: SMT Angle (without hold-down)	
						Plating Specification A: Au plating Embossed reel package R600: 600 pieces per reel Modification Code	

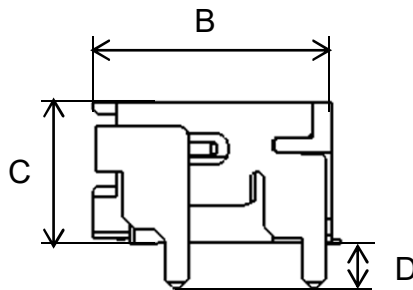
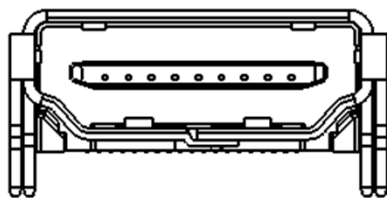
Outer Dimensions

Unit: mm

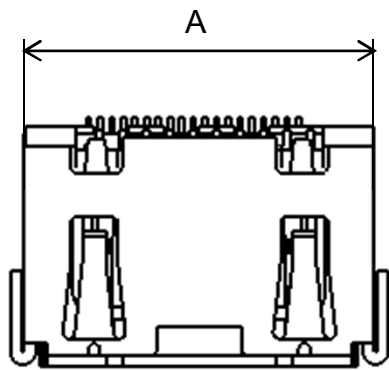
Without flange



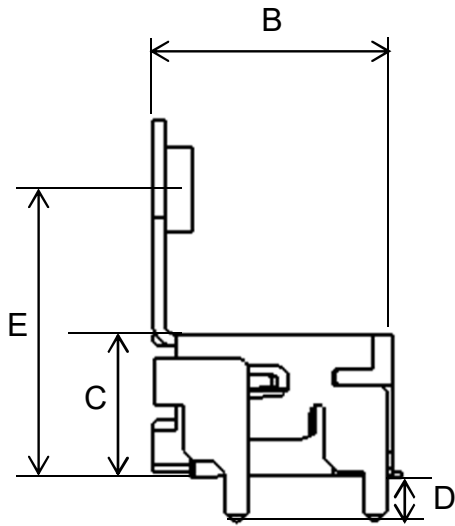
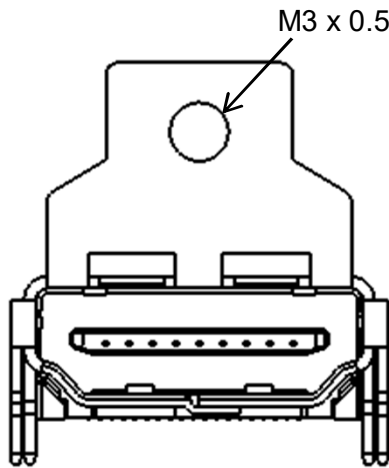
Part Number	A	B	C	D
DC04S019JA1	15	10.25	6.1	1.9
DC04S019JA2				1.18



With flange



Part Number	A	B	C	D	E
DC04S019JAA	15	10.25	6.1	1.9	12.3



Notice:

1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.

2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.

3. The products presented in this brochure are designed for the uses recommended below.

We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:

(i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:

Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.

(ii) 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.

(2) Recommended applications include:

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

Japan Aviation Electronics Industry, Limited

Advanced-Product Development Planning Dept. Connector Division
Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539
Phone: +81-3-3780-2882 FAX: +81-3-3780-2946

* The specifications in this brochure are subject to change without notice. Please contact JAE for information.