

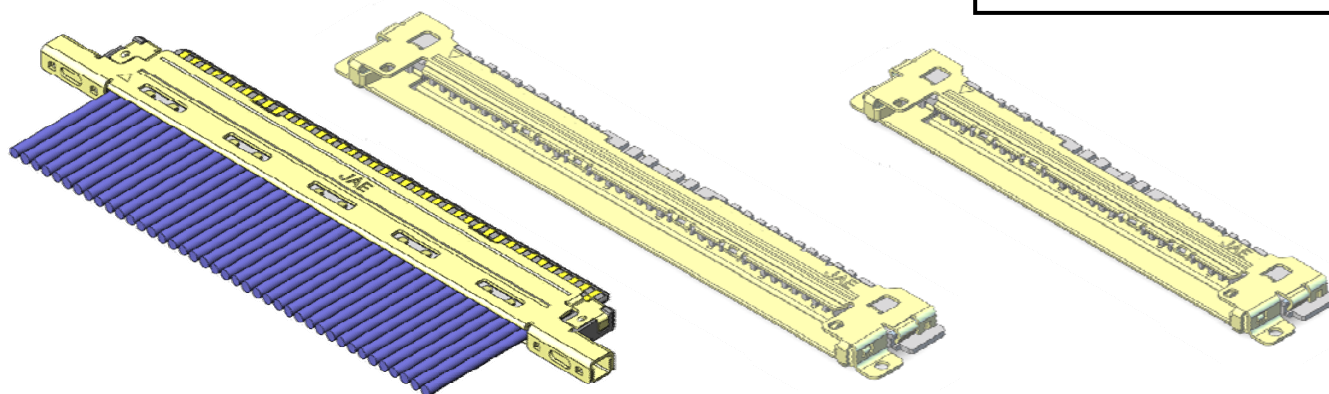


Board-to-Cable Connector for High-speed Transmission CONNECTOR

HD Series Connector

MB-0247-1

June 2012

RoHS Compliant

40 position

30 position

JAE has recently developed the HD Series of connectors (HD1: 40 pos. HD2: 30 pos.) for notebook PC LCD interface applications. The HD Series connectors are compatible with LVDS transmission and LED backlight as standardized in the VESA® 16:9 Wide Notebook Panel Standard, and are licensed products for the Dai-ichi Seiko Co., Ltd. (I-PEX) CABLINE®-VS.

Features

- Products licensed by Dai-ichi Seiko Co., Ltd. (I-PEX)
- Fully compatible with the Dai-ichi Seiko., Ltd. (I-PEX) CABLINE®-VS
- Compatible with LVDS transmission
- HD1: 40 position (receptacle and plug); HD2: 30 position (receptacle)
- Pb-free
- Halogen-free

Note: CABLINE-VS is a registered trademark of Dai-ichi Seiko Co., Ltd. (I-PEX)

LICENSED BY DAI-ICHI SEIKO CO., LTD. (I-PEX)

General Specifications

■Number of Contacts:

40 (HD1), 30 (HD2)

■Applicable Cable:

AWG#32 to 36 (Discrete cable)

AWG#36 to 44 (Micro-coaxial cable)

■Rated Current:

1.0A per contact AC/DC [AWG#32]

1.0A per contact AC/DC [AWG#34]

0.8A per contact AC/DC [AWG#36]

0.3A per contact AC/DC [AWG#40]

0.24A per contact AC/DC [AWG#42]

0.1A per contact AC/DC [AWG#44]

■Rated Voltage:

AC, DC each 100V per contact

■Operating temperature:

-40 Deg. C to 85 Deg. C

■Pitch: 0.5mm

■Dielectric Withstanding Voltage:

AC250V r.m.s. per minute

■Contact Resistance*:

AWG#32: 140m Ω max.

AWG#34: 180m Ω max.

AWG#36: 275m Ω max.

AWG#40: 600m Ω max.

AWG#42: 700m Ω max.

AWG#44: 1080m Ω max.

■Insulation Resistance: 1000M Ω min.

*Values include the following conductor resistance of 100mm cable.

AWG#32: 60m Ω max.

AWG#34: 100m Ω max.

AWG#36: 160 to 195m Ω max.

AWG#40: 485 to 520m Ω max.

AWG#42: 585 to 620m Ω max.

AWG#44: 1000m Ω max.

Materials / Finishes

Board Side Receptacle Connector HD1S040HA1, HD2S030HA1

Component	Material / Finish
Contact	Copper alloy / Au plating over Ni (contact area)
Insulator	Heat resistance plastic / No finish
Shell	Copper alloy / Au plating over Ni

Plug Connector HD1P040MA1

Component	Material / Finish
Contact	Copper alloy / Au plating over Ni
Insulator	Heat resistance plastic / No finish
Base shell	Copper alloy / Au plating over Ni

Cover Shell for Plug HD1P040-CSH2-10000

Component	Material / Finish
Cover shell	Copper alloy / Au plating over Ni

Ordering Information

Board Side Receptacle Connector (SJ110381, SJ110547)

HD* S * H A 1**

Series

HD1: 40 pos.

HD2: 30 pos.

S: Socket type

No. of Contacts

040: 40pos. 030: 30pos.

1: Modification code

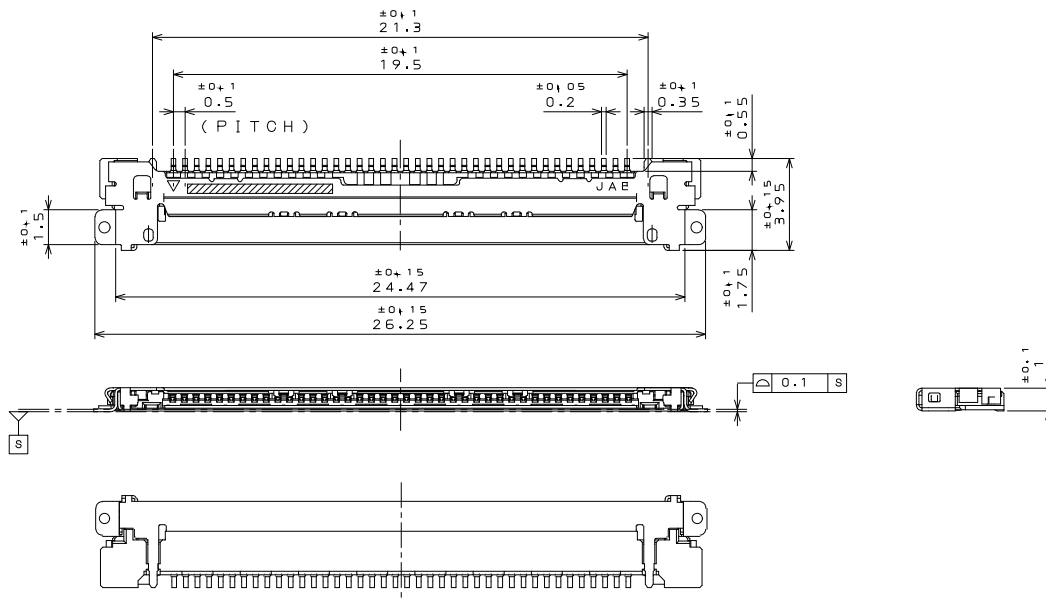
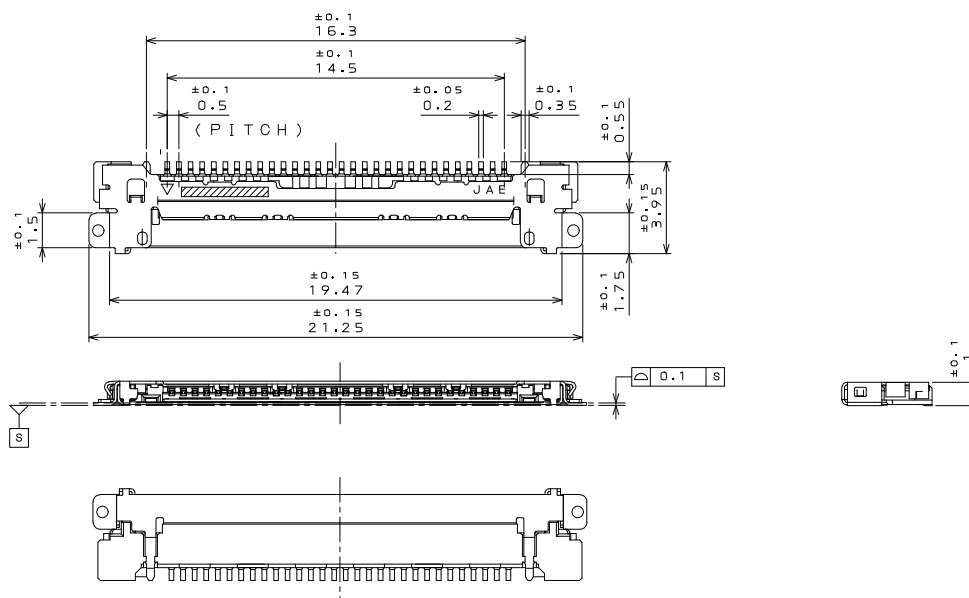
Finishes A: Au plating

Type of Termination

H: Mounted on board

HD1S040HA1 (SJ110381)

Unit: mm

**HD2S030HA1 (SJ110547)**

Ordering Information

Plug Connector (SJ111088)

HD1 P 040 M A 1

Series

P: Plug type

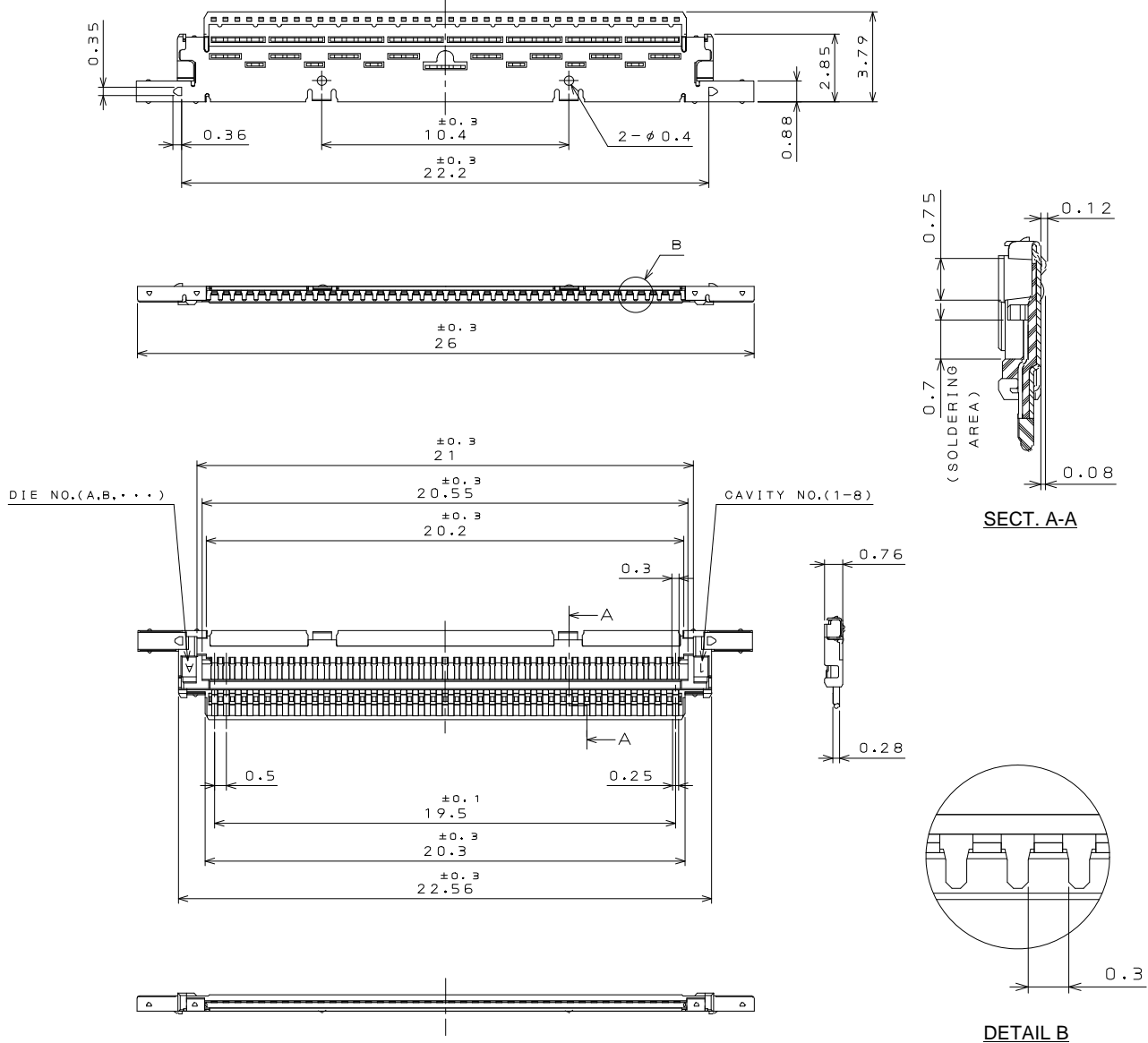
No. of Contacts: 40 pos.

1: Modification code

Finishes A: Au plating

Type of Termination
M: Cable connection

Unit: mm



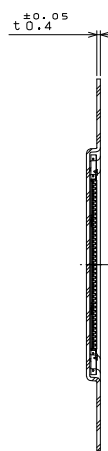
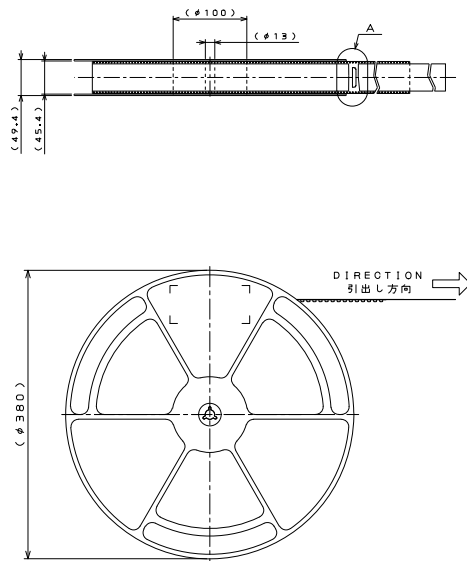
Ordering Information

Plug Connector (Embossed packaging) (SJ110089)

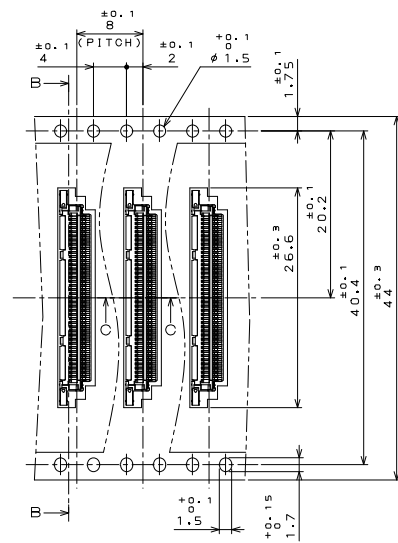
HD1 P 040 M A 1 R6000

R: Embossed packaging of 6000 pcs.

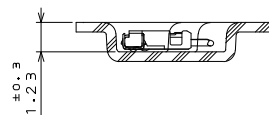
Unit: mm



SECT. B-B



DETAIL A



SECT. C-C

Ordering Information

Cover Shell (SJ111533)

HD1 P 040 - C SH 2 - 10000

Series

P: Plug type

No. of Contacts: 40 pos.

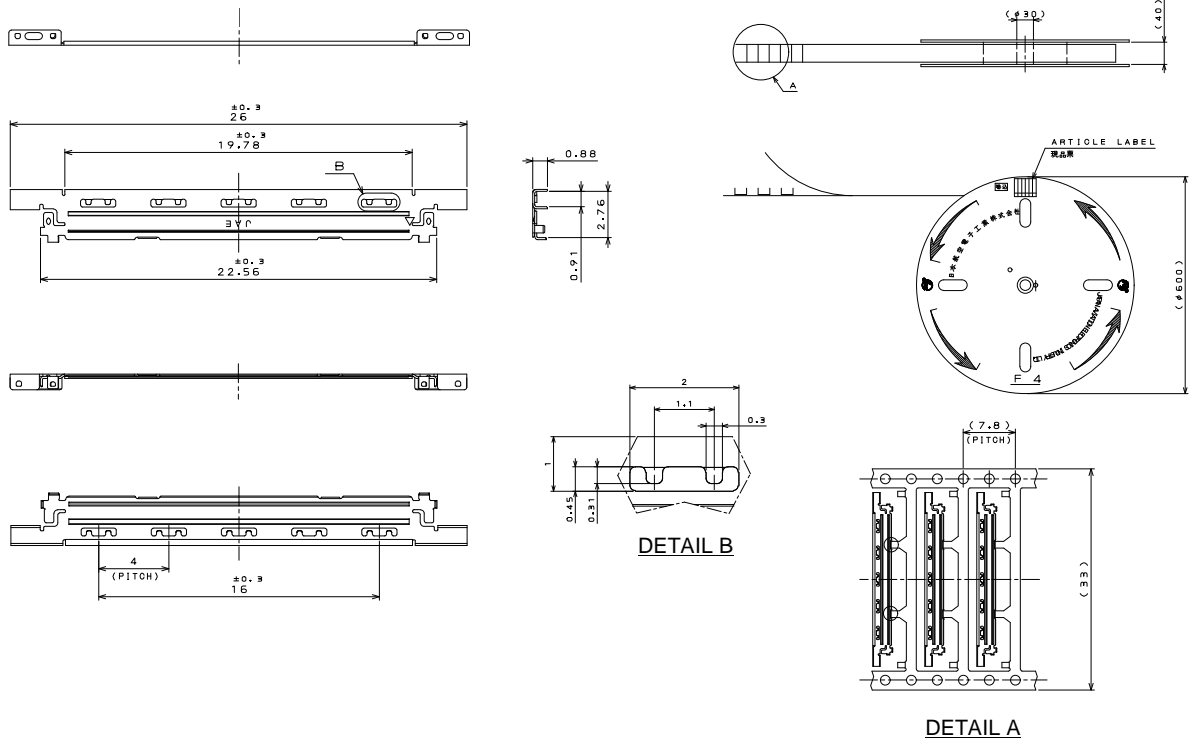
Packaging: 10000 pcs.

2: Modification code

SH: Shell

C: Plug

Unit: mm



Related Information

- Specifications Table (JACS): JACS-10696
- Handling Instructions (J AHL): J AHL-10696-1
J AHL-10696-2 (Plug Assembly)

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Notice: Products shown in this brochure are made for the applications listed below. 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, Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.

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