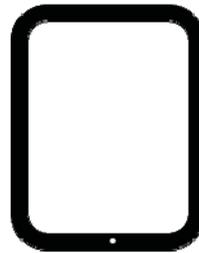
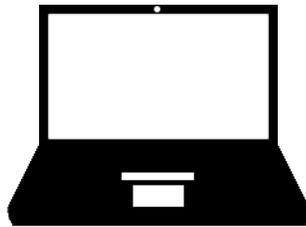


# HD Series Board-to-Cable Connector

Connector Training Module

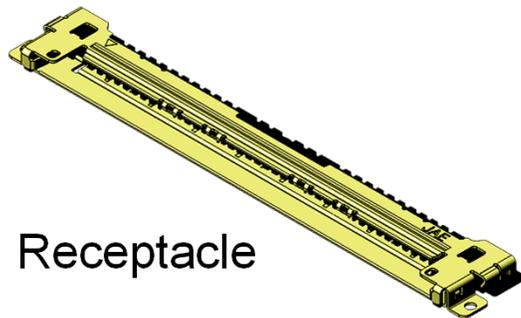
## Application Examples

- Laptops
- Tablets
- Medical Equipment
- Other LCD applications

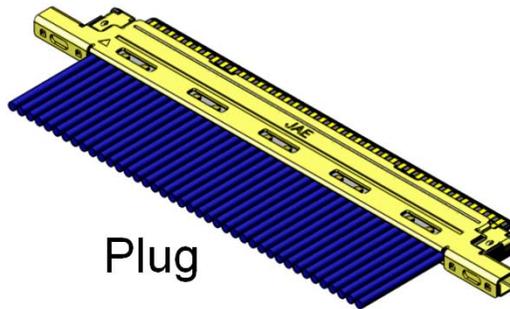


# HD Series Overview

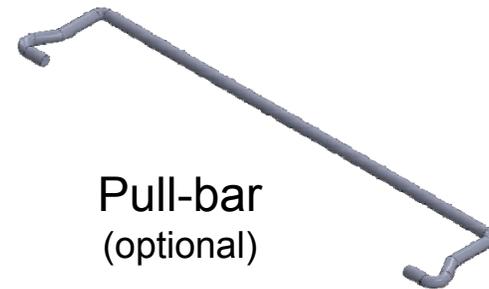
LED backlighting generates less heat, uses less power, and allows the panel to be thinner. JAE has developed the HD Series for laptop/LCD applications. This series is compatible with LVDS transmission and LED backlight as standardized in the VESA® 16:9 Wide Notebook Panel Standard. They are also licensed products for the Dai-ichi Seiko Co., Ltd. (I-PEX) CABLINE®-VS\*.



Receptacle



Plug



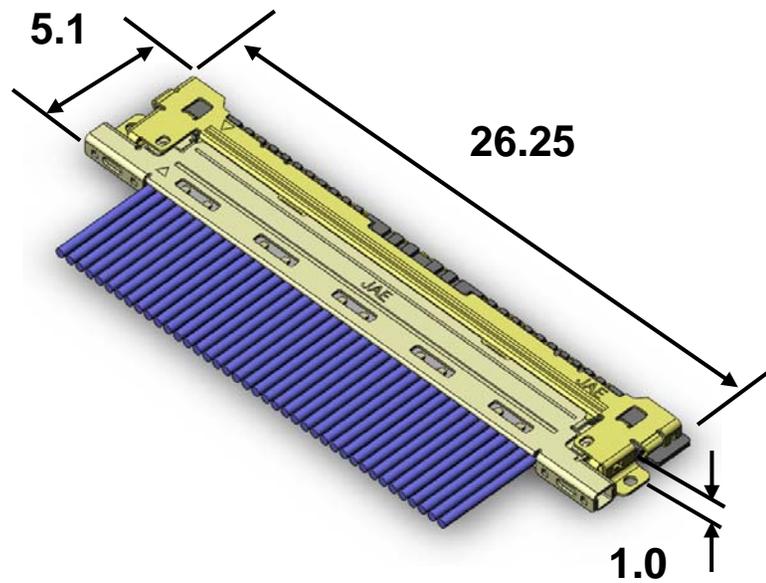
Pull-bar  
(optional)

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

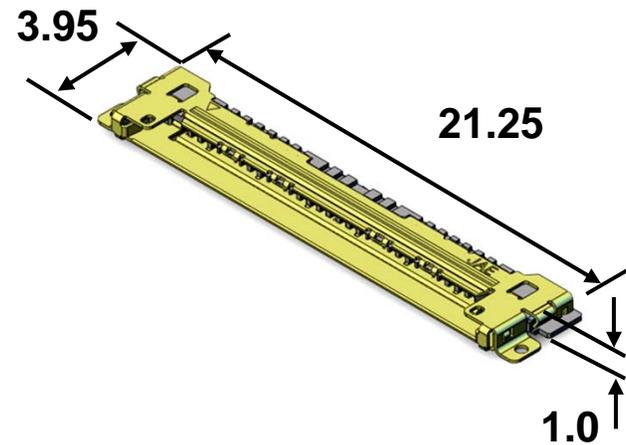
# Basic Dimensions

\*All units in mm

## HD1 Connector (mated)



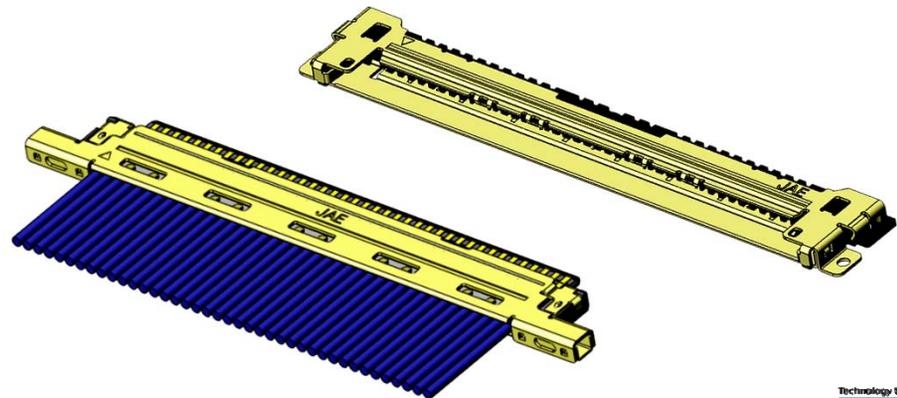
## HD2 Connector (Receptacle)



# HD Series Features

## Ideal for high-speed transmission applications

- The HD series is a new low profile board to cable connector that can be used as an LCD panel interface.
- Fully compatible with the Dai-ichi Seiko Co., Ltd. (I-PEX) CABLINE®-VS
- High-speed video signals such as LVDS, and next generation DisplayPort (eDP) can be transmitted through the HD1 connector.
- These connectors will be found on LED backlit LCD's which are commonly found in laptops and tablets.
- The cable plug is designed for solder termination rather than crimp. It is compatible with both coax and discrete wires.
- Optional pull-bar available that can be used as a mechanical lock.
- Pb and Halogen-free



# General Specifications

<b>Number of Positions</b>	40 (HD1 Series), 30 (HD2 Series)
<b>Pitch</b>	0.5mm
<b>Applicable Cable</b>	32 to 36 AWG (Discrete cable) 36 to 44 AWG (Micro-coaxial cable)
<b>Contact resistance*</b>	AWG#32: 140m $\Omega$ max. AWG#34: 180m $\Omega$ max. AWG#36: 275m $\Omega$ max. AWG#40: 600m $\Omega$ max. AWG#42: 700m $\Omega$ max. AWG#44: 1080m $\Omega$ max.
<b>Insulation Resistance</b>	1000M $\Omega$ min.
<b>Dielectric Withstanding Voltage</b>	AC 250 V r.m.s per minute
<b>Operating Temperature Range</b>	-40°C to +85°C
<b>Current Rating</b>	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]
<b>Voltage Rating</b>	100V per contact AC, DC each

\*Values include the following conductor resistance of a 100mm cable:

AWG#32: 60m  $\Omega$  max.

AWG#34: 100m  $\Omega$  max.

AWG#36: 160m to 195m  $\Omega$  max.

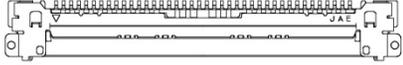
AWG#40: 485m to 520m  $\Omega$  max.

AWG#42: 585m to 620m  $\Omega$  max.

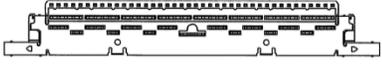
AWG#44: 1000m  $\Omega$  max.

# Materials and Finishes

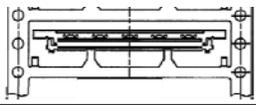
## Receptacle (HD1S040HA1, HD2S030HA1)

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

## Plug (HD1P040MA1)

	Component	Material / Finish
	Contact	Copper alloy / Au over Ni plating
	Insulator	Heat resistant plastic / No finish
	Shell	Copper alloy / Au over Ni plating

## Cover Shell for Plug (HD1P040-CSH1-10000, HD1P040-CSH2-10000)

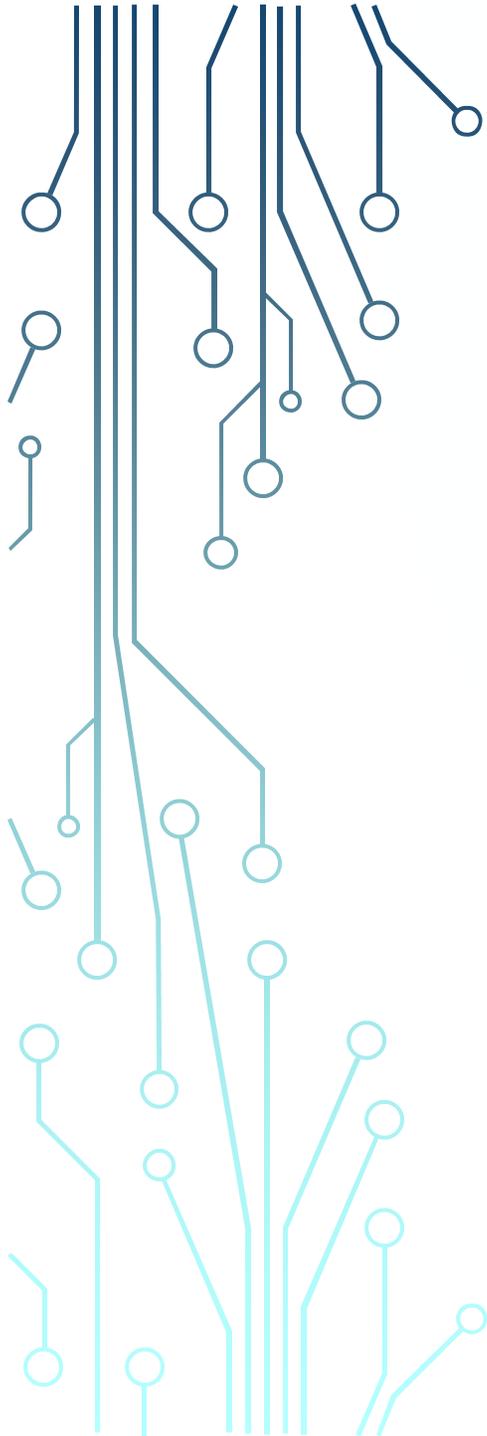
	Component	Material / Finish
	Cover Shell	Copper alloy / Au over Ni plating

## Pull Bar for Plug (HD1P040-PB1)

	Component	Material / Finish
	Pull Bar	Stainless steel / No finish

# Summary

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



**Technology to Inspire Innovation**

**JAE**