NEW

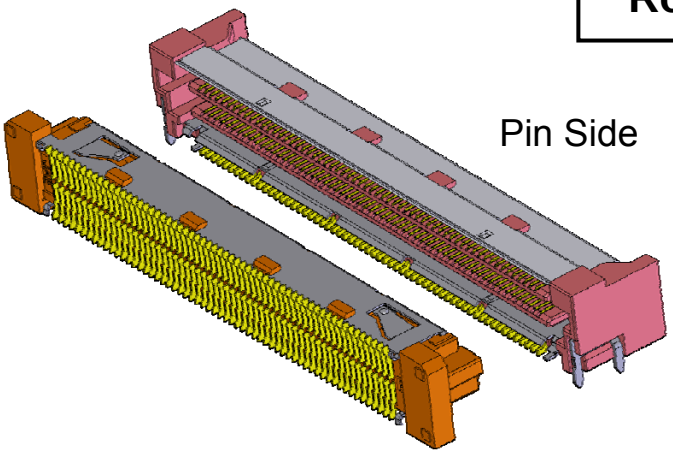
0.8mm Pitch Board-to-Board
Factory Automation Connector

BA1 Series

CONNECTOR
MB-0218-1
November 2010

RoHS Compliant

Socket Side



Pin Side

The BA1 Series is a 0.8mm pitch board-to-board connector which answers the demand for robustness and contact reliability for various factory automation devices such as CNC, servo amplifier, PLC and measuring devices.

Features

- ■Robust with mating guide structure ideal for rack and panel mounting.
- ■Non-pin type connector shape strong against twist during mating.
- ■Superior contact reliability with two-point contact structure.
- ■Terminal area compatible with SMT mounting, vertical connection with board.
- ■Grounded structure with EMI countermeasure.

General Specifications

- ■No. of Contacts: 120 pos.
- ■Contact Resistance: 40mΩ max. (initial)
- ■Dielectric Withstanding Voltage: 500V AC r.m.s per minuet (initial)
- ■Rated Current: 0.5A per terminal
- ■Insulation Resistance: 100MΩ ohm min. (initial)
- ■Operating Temperature: -70 Deg. C to 70 Deg. C

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Materials and Finishes

■Pin Side

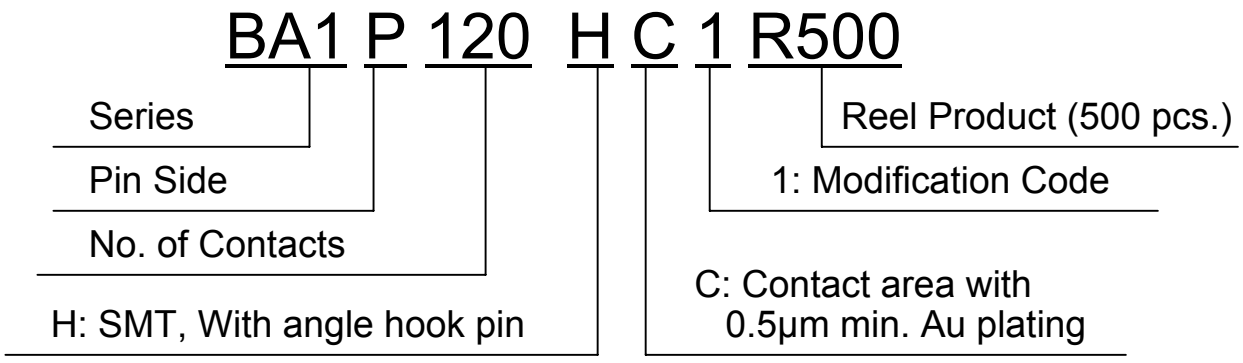
Component	Material and Finish
Contact	Copper alloy / Contact area: Au plating over Ni Terminal area: Au flash plating over Ni
Insulator	Glass filled 9T-Ny / None
Shell	Copper alloy / Reflow Sn plating
Hook	Copper alloy / Sn plating over Ni

■Socket Side

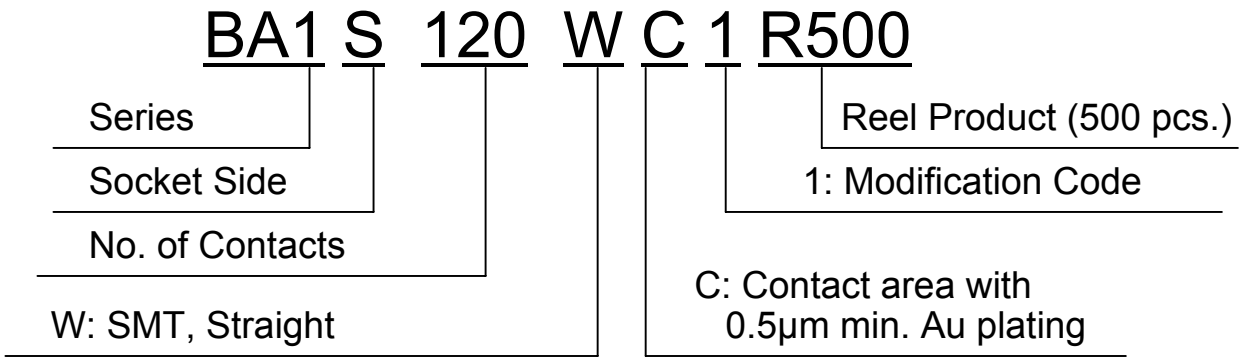
Component	Material and Finish
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Insulator	Glass filled 9T-Ny / None
Shell	Copper alloy / Reflow Sn plating

Ordering Information

■Pin Side



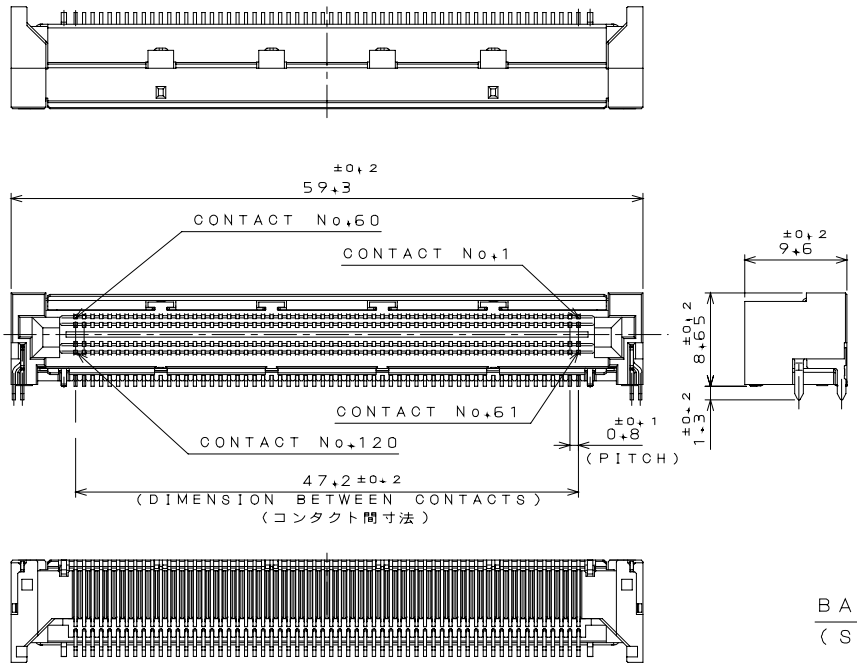
■Socket Side

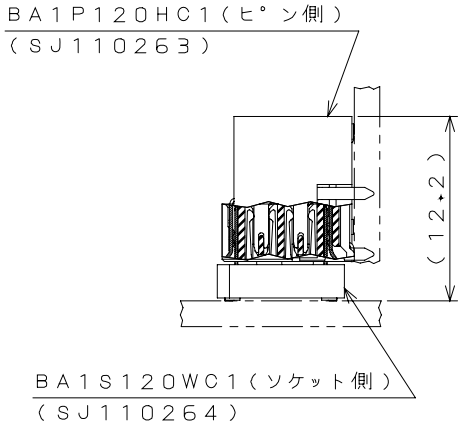


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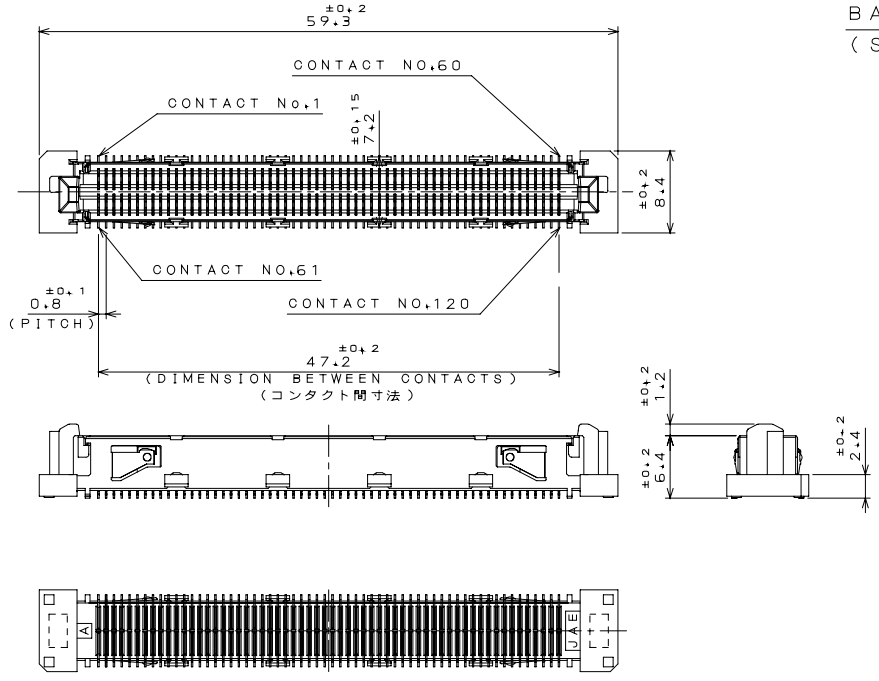
Product Drawing

■Pin Side (Angle Type)
BA1P120HC1 (SJ110263)





■Socket Side (Straight Type)
BA1S120WC1 (SJ110264)

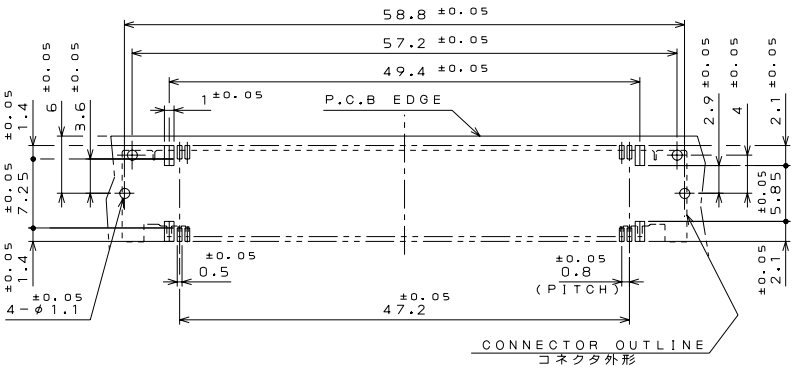


Drawing when mated
(for reference)

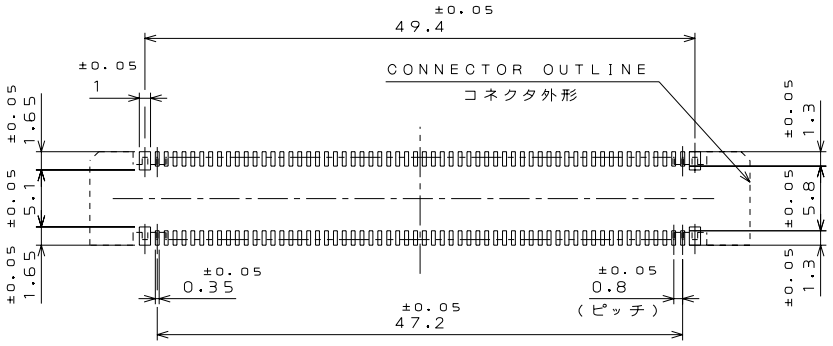
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■Applicable Dimensions for Board (for reference)

・Pin Side (Angle Type)
BA1P120HC1



・Socket Side (Straight Type)
BA1S120WC1



SJ Drawing No.

Part Number	SJ Drawing No.	Specification
BA1P120HC1 (Pin side, individual product) *Note	SJ110263	JACS -10667
BA1S120WC1 (Socket side, individual product) *Note	SJ110264	
BA1P120HC1R500 (Pin side, reel product)	SJ110309	
BA1S120WC1R500 (Socket side, reel product)	SJ110310	

Note) Only reel products (500 pcs.) are available for sale.
Please contact us concerning sales of individual products.

●Test Report: SR-C-0961

Notice: Products shown in this leaflet 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.

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