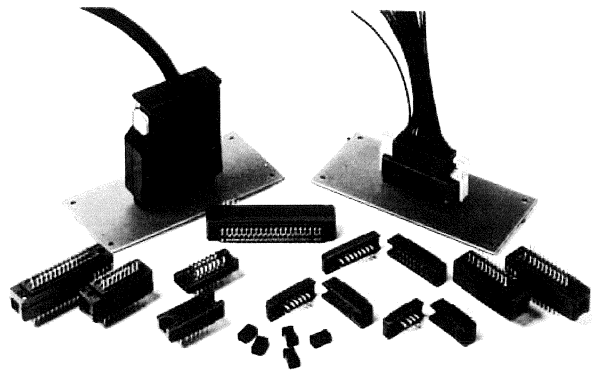


SUMICON 1600 SERIES DIP SOLDERING CONNECTORS

General

The SUMICON 1600 series are original Hirose rectangular dip soldering connectors 8, 12, 16, 20, 24, 34, 45 and 60-contact models are available. All models are compatible with the previous 1600 series in mounting and accessories.



Features

1. Allows straight dip soldering onto a PCB, and is effective in PCB-to-PCB and PCB-to-cable connection.
2. Suitable for use in interface, being compact and lightweight and meeting high-density packaging requirements.
3. Further cuts interconnection costs when simple locks are used.
4. A wide variety of combinations of connection methods available, e.g., dip soldering, wrapping, and crimping, to meet your requirements.

Main Applications

Computers, peripherals and terminals, data communications equipment, measuring instruments, signal equipment, mobile radio equipment, copier, and FAX machine.

Electrical and Environmental

Performance	
Contact Resistance	7mΩ or less at DC 1A
Insulation Resistance	1,000MΩ or higher at DC 500V
Withstand Voltage	AC 1,000V for 1 minute
Current capacity	3A

Material and finish		
Insulator	Glass-Filled diallylphtalate resin	
Male Terminal	Bress	Type A: Silver-plated Type B: Gold-plated
Female Terminal	Phosphor bronze	

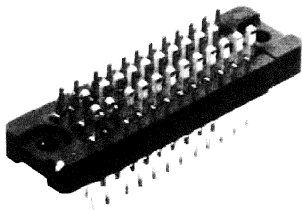
Orderig Information

<u>P</u>	<u>D</u>	—	<u>16</u>	<u>34</u>	<u>□</u>	<u>A</u>	—	<u>SP</u>	<u>□</u>	<u>(09)</u>
(1)	(2)		(3)	(4)	(5)	(6)		(7)	(8)	(9)
(1) Shape of terminal opening P: Male terminal S: Female terminal						(6) Plating A: Silver plated B: Gold plated				
(2) Terminal connection method D: Dip soldering						(7) Signs for accessories SP: Spacer for dip soldering				
(3) Series No. 16: 1600 series						(8) Serial signs for accessories Each accessory is provided with a sequence A of upper-case alphabetic characters. Sequence: No sign, A, B ...				
(4) Number of contacts						(9) Specification (09) : Standard				
(5) Serial sign for connctor units Provided with a sequence of upper-case alphabetic characters. Sequence: No sign, B, C, D, E ...										

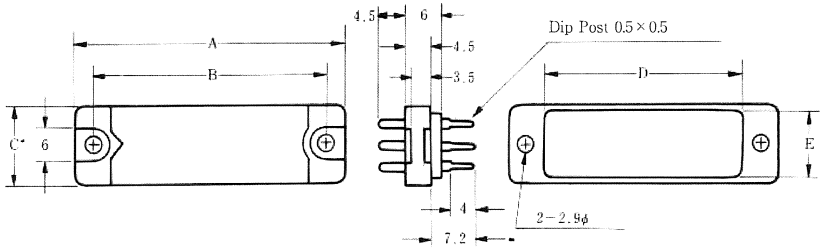
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.
All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

Dip Soldering Type Connector

Male Connector

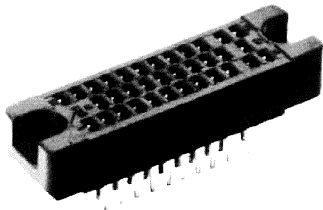


PD-1634BA (09)

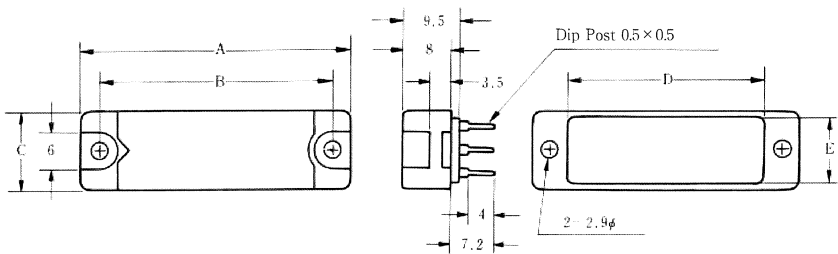


No. of Pin	A Type		G Type		A	B	C	D	E	RoHS
	HRS No.	Part No.	HRS No.	Part No.						
8	CL216-0388-7-09	PD-1608BA (09)	CL216-0406-7-09	PD-1608BG (09)	25	19	10	13	8	YES
12	CL216-0389-0-09	PD-1612BA (09)	CL216-0407-0-09	PD-1612BG (09)	30	24	10	18	8	
16	CL216-0390-9-09	PD-1616BA (09)	CL216-0408-2-09	PD-1616BG (09)	35	29	10	23	8	
20	CL216-0391-1-09	PD-1620BA (09)	CL216-0409-5-09	PD-1620BG (09)	33	27	13	21	11	
24	CL216-0392-4-09	PD-1624BA (09)	CL216-0410-4-09	PD-1624BG (09)	37	31	13	25	11	
28	CL216-0393-7-09	PD-1628BA (09)	CL216-0411-7-09	PD-1628BG (09)	40	34	13	28	11	
34	CL216-0394-0-09	PD-1634BA (09)	CL216-0412-0-09	PD-1634BG (09)	45	39	13	33	11	
45	CL216-0395-2-09	PD-1645BA (09)	CL216-0413-2-09	PD-1645BG (09)	54	48	13	42	11	
60	CL216-0396-3-09	PD-1660BA (09)	CL216-0414-5-09	PD-1660BG (09)	67	61	13	55	11	

Female Connector



SD-1634A (09)

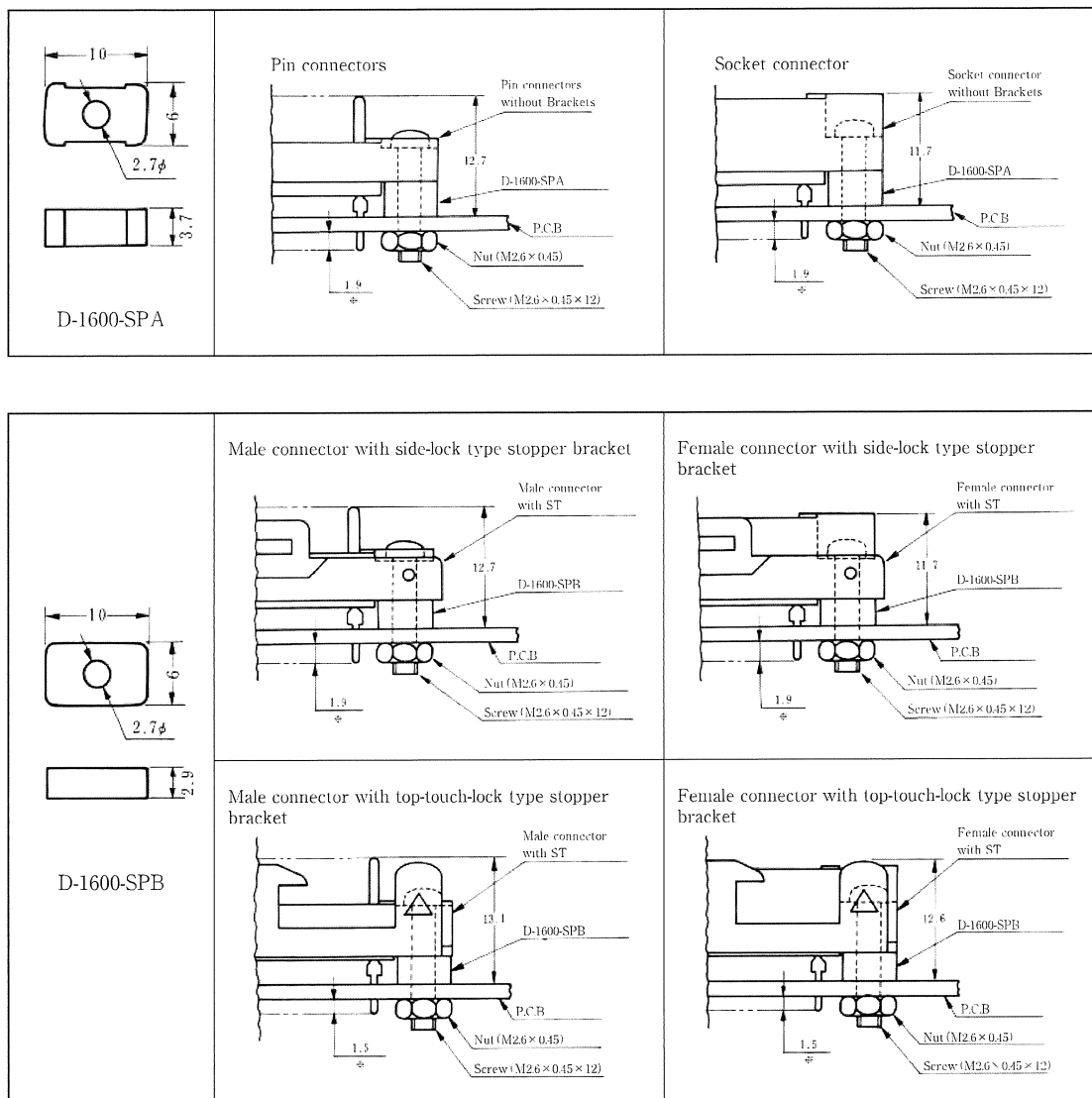


No. of Pin	A Type		G Type		A	B	C	D	E	RoHS
	HRS No.	Part No.	HRS No.	Part No.						
8	CL216-0379-6-09	SD-1608BA (09)	CL216-0397-8-09	SD-1608BG (09)	25	19	10	13	8	YES
12	CL216-0380-3-09	SD-1612BA (09)	CL216-0398-0-09	SD-1612BG (09)	30	24	10	18	8	
16	CL216-0381-8-09	SD-1616BA (09)	CL216-0399-3-09	SD-1616BG (09)	35	29	10	23	8	
20	CL216-0382-0-09	SD-1620BA (09)	CL216-0400-0-09	SD-1620BG (09)	33	27	13	21	11	
24	CL216-0383-3-09	SD-1624BA (09)	CL216-0401-3-09	SD-1624BG (09)	37	31	13	25	11	
28	CL216-0384-6-09	SD-1628BA (09)	CL216-0402-6-09	SD-1628BG (09)	40	34	13	28	11	
34	CL216-0385-9-09	SD-1634BA (09)	CL216-0403-9-09	SD-1634BG (09)	45	39	13	33	11	
45	CL216-0386-1-09	SD-1645BA (09)	CL216-0404-1-09	SD-1645BG (09)	54	48	13	42	11	
60	CL216-0387-4-09	SD-1660BA (09)	CL216-0405-4-09	SD-1660BG (09)	67	61	13	55	11	

Dip Spacer

HRS No.	Part No.	Application
CL216-0419-9	D-1600-SPA	Connector unit packing (applicable for models with any number of contacts)
CL216-0420-8	D-1600-SPB	For packing with Connector unit stopper (applicable for models with any number of contacts)

Mounting screws must be supplied by the customer



Note 1: The connector unit packaging spacer (SPA) cannot be used for packing with the connector unit stopper bracket.

The packaging spacer with connector unit stopper bracket (SPB) cannot be used for packaging the connector unit.

Note 2: Provide two spacers (SPA and SPB) for each connector unit.

* The dimensions marked with an asterisk (*) are for PCBs of 1.6mm in thickness.

How to use connectors

1. When disconnecting, pull it as straight as possible, because the male pins might be damaged if it is twisted.
2. Connectors are available with gold to be used in adverse environmental conditions and silver-plated pins be used in ordinary conditions.

Recommended Dip Soldering Pattern of Connector

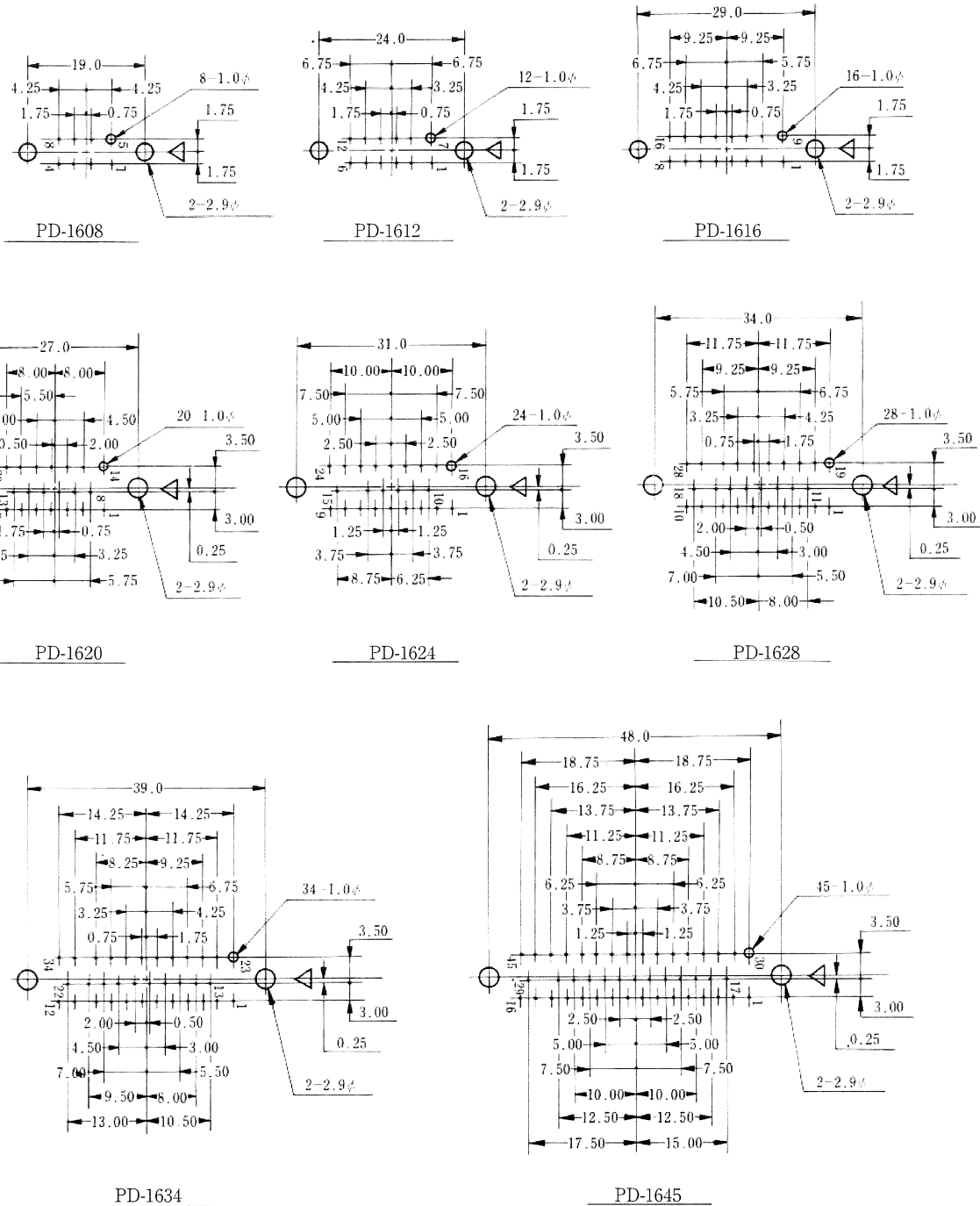
(mm)

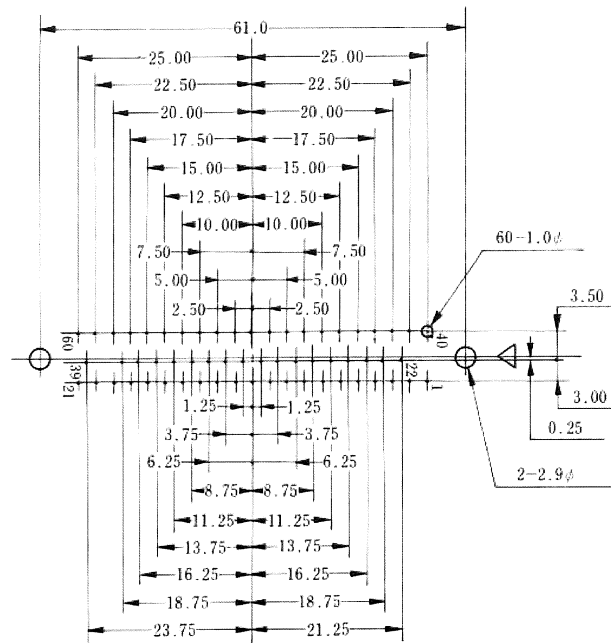
When dip soldering the connectors to a PCB, drill holes as shown below. The figures indicate the number of contacts.

Signs $\triangle$ indicate the V-shaped mark (direction of the

connector unit) on the mating face of the connector unit.

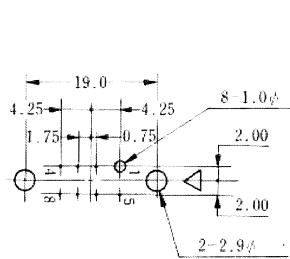
Recommended Dip Soldering Pattern of Pin Connector (View of the connector-mounting surface of substrate)



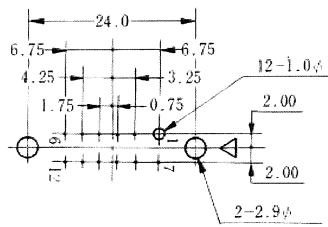


PD-1660

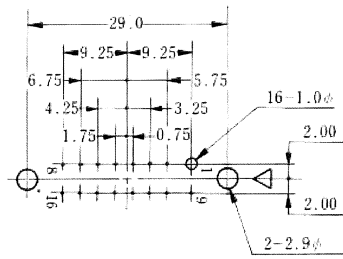
Recommended PC Board Hole Pattern Socket Connector



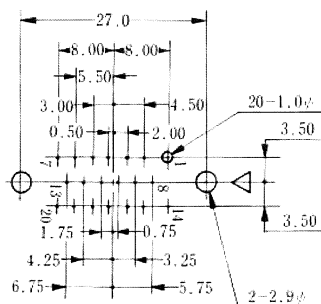
SD-1608



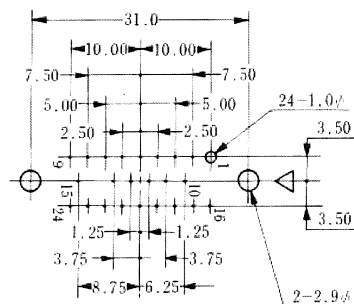
SD-1612



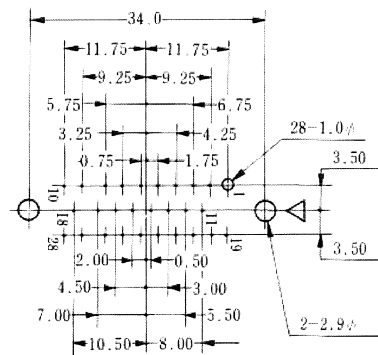
SD-1616



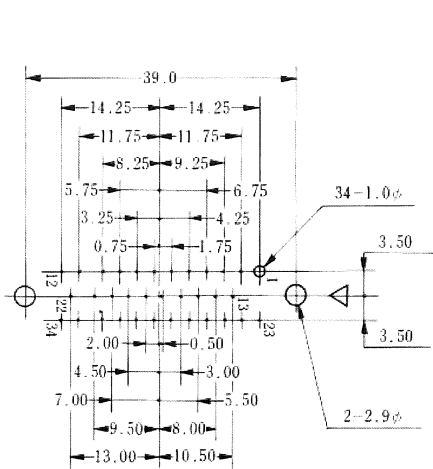
SD-1620



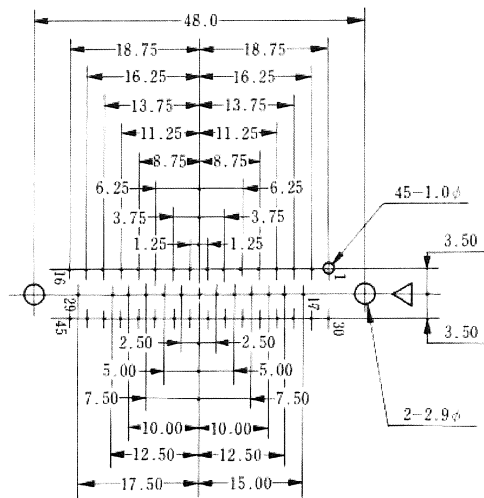
SD-1624



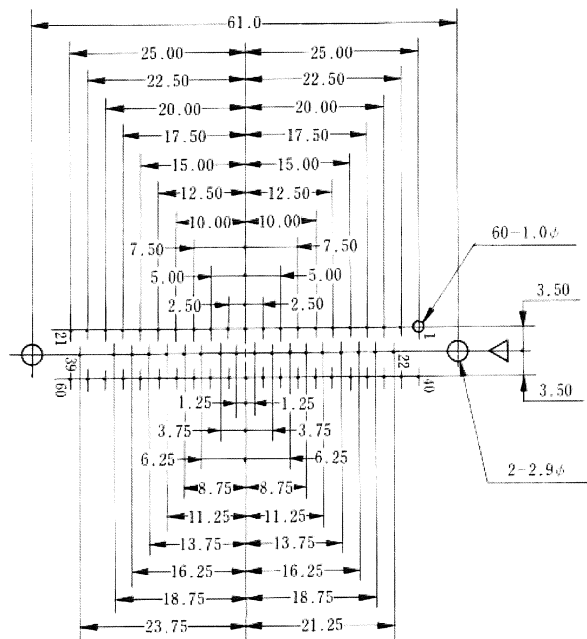
SD-1628



SD-1634

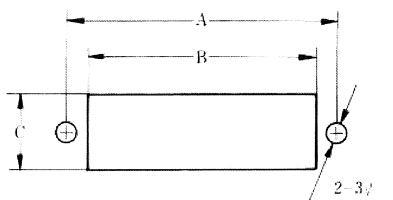


SD-1645



SD-1660

Recommended Mounting Hole



(mm)

No. of Pin	A	B	C	Applicable Screw
8	19	13.5	8.5	M2.6
12	24	18.5	8.5	
16	29	23.5	8.5	
20	27	21.5	11.5	
24	31	25.5	11.5	
28	34	28.5	11.5	
34	39	33.5	11.5	
45	48	42.5	11.5	
60	61	55.5	11.5	