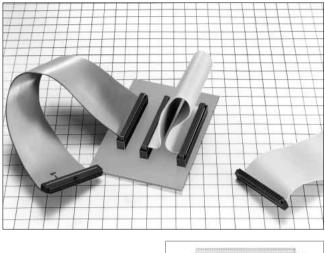
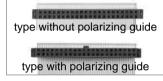
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at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

2mm Pitch Miniature Connector for HDD

A3E Series





Features

1. Variation in Number of Contacts

This connector can be chosen according to applications, using together with other series products as follows:

- (1) Cable crimping type (A3B series)
- (2) Cable ID type (A3E series)
- (3) FFC connection type (MA18 series, A3C series)

(However, the A3E series pin header corresponds to the A3E series socket only.)

On the other hand, 44 contacts are available for AT bus connection, and 55 contacts for SCSI connection.

2. Batch Insulation Displacement

1 mm pitch ribbon cable can be insulated and displaced.

3. Mechanism to Prevent Mis-insertion

The connector on the socket side contains a mechanism to prevent mis-insertion in the connector on the header side.

Product Specifications

Rating	Current rating: 0.5A	Operating Temperature Range:-55 to $+85^\circ\!\!\!\mathrm{C}$ (Note 1)	Storage Temperature Range:-10 to $+60^{\circ}$ C (Note 2)
Rating	Voltage rating: 125V AC	Operating Moisture Range:40 to 80%	Storage Humidity Range:40 to 70% (Note 2)

Item	Specification	Condition	
1. Insulation Resistance	1000M ohms min.	250V DC	
2. Withstanding voltage	No flashover or insulation breakdown.	300V AC/1 minute	
3. Contact Resistance	40m ohms max.	0.1A	
4. Vibration	No electrical discontinuity of 1μ s or more	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.	
5. Humidity (Steady state)	Insulation resistance: 1000M ohms min.	96 hours at temperature of 40 $^\circ\!C$ and humidity of 90% to 95%	
6. Temperature Cycle	No damage, cracks, or parts looseness.	(-55℃: 30 minutes →15 to 35℃: 5 minutes max.→	
	no damage, clacks, or parts looseness.	+85°C: 30 minutes →15 to 35°C: 5 minutes max.) 5 cycles	
7. Durability (Mating/un-mating)	Contact resistance: 50m ohms max.	100 cycles	
8. Resistance to Soldering heat	No deformation of components affecting performance.	Solder bath: 260°C for 10 seconds	
O. Resistance to Soldening field	no detormation of components affecting performance.	Manual soldering: 350°C for 3 seconds	

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

Note 3: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

Material

Pa	Part Material		Finish	Remarks	
Insulator	Pin header	Polyamid	Black	UL94V-0	
Insulator	Socket	PBT	Diack		
Contact	Pin header		Selective gold plated over nickel		
	Socket	Beryllium copper	underplated		

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Ordering Information

•Pin Header



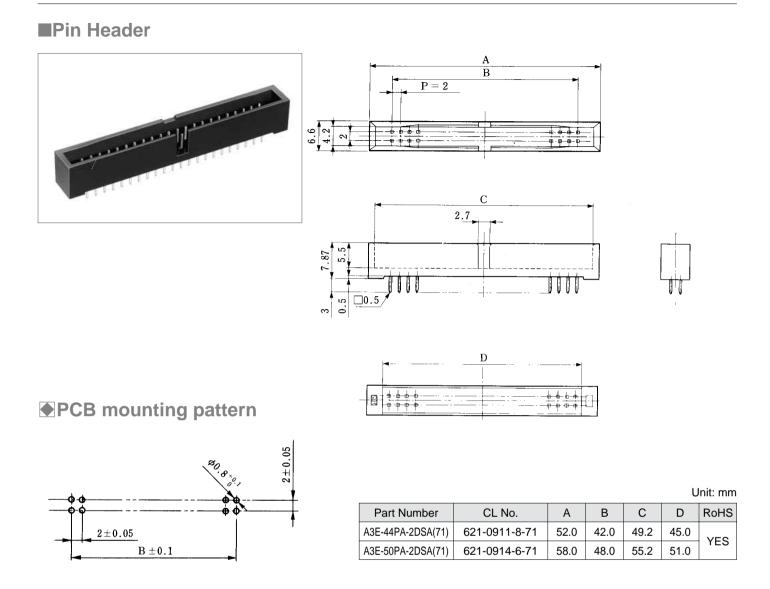
n
Series Name : A3E
Number of contacts: 44, 50
P: Pin header
A: Selective gold plated
Contact pitch : 2mm
Contact type: DSA : Straight dip type

Socket

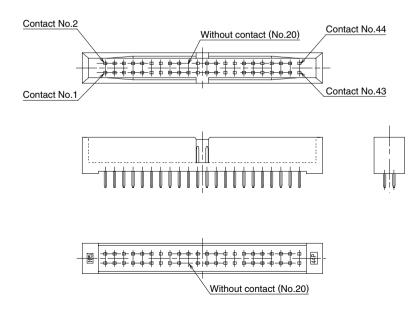


 Series Name 	: A3E	With polarizing guide		
	A3EA	Without polarizing guide		
Number of contacts: 44, 50				
3 D: Receptacle				
Ocntact pitch: 2mm				
Connection type: R : ID type				

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-Roh and the second second



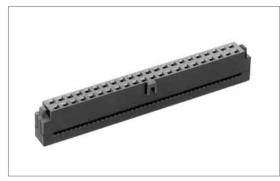
•For 44 pos., without contact No. 20 pin header is available. A3E-44PA-2DSA(81)



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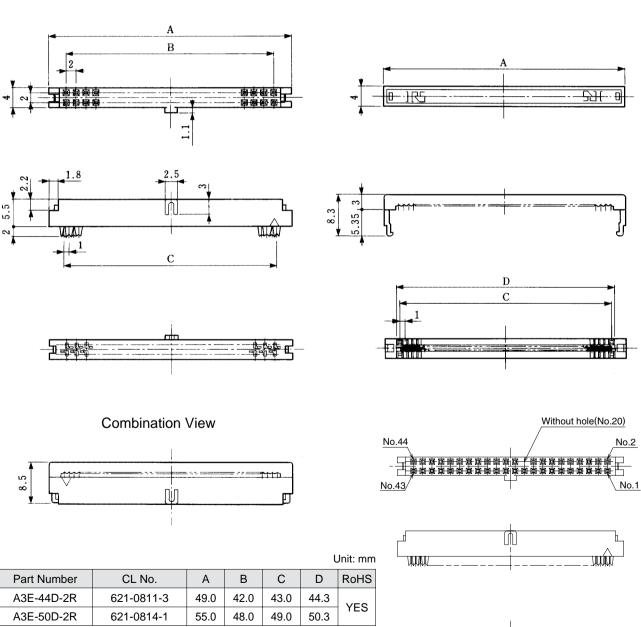
Socket

•Type with polarizing guide to prevent mis-insertion (A3E)



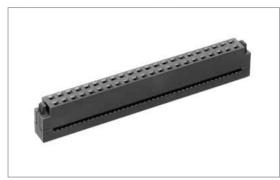






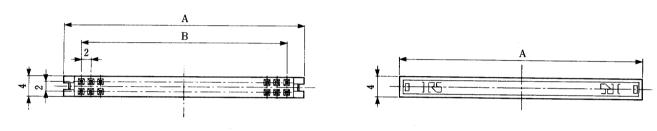
Note : For 44 pos., without contact No. 20 hole soket is available.

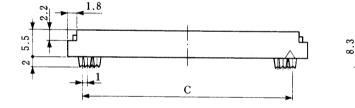
•Type without polarizing guide to prevent false-insertion (A3EA)

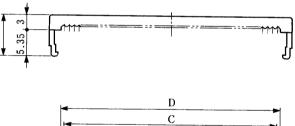




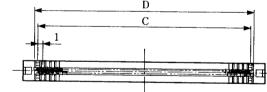












Combination View

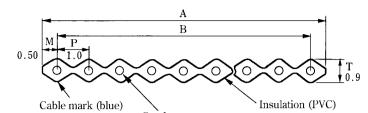


Unit: mm

Part Number	CL No.	A	В	С	D	RoHS
A3EA-44D-2R	621-0861-1	49.0	42.0	43.0	44.3	YES
A3EA-50D-2R	621-0864-0	55.0	48.0	49.0	50.3	TES

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Recommended Cable for A3E Socket



Conductor (tin plating annealed steel wire)

Ribbon Cable				
Number of	Core wire Construction	А	в	
Contacts	(pc./mm)	4	D	
44	7/0.127	44	43	
50	7/0.127	50	49	

● Table of A3E Series Connection Tools

