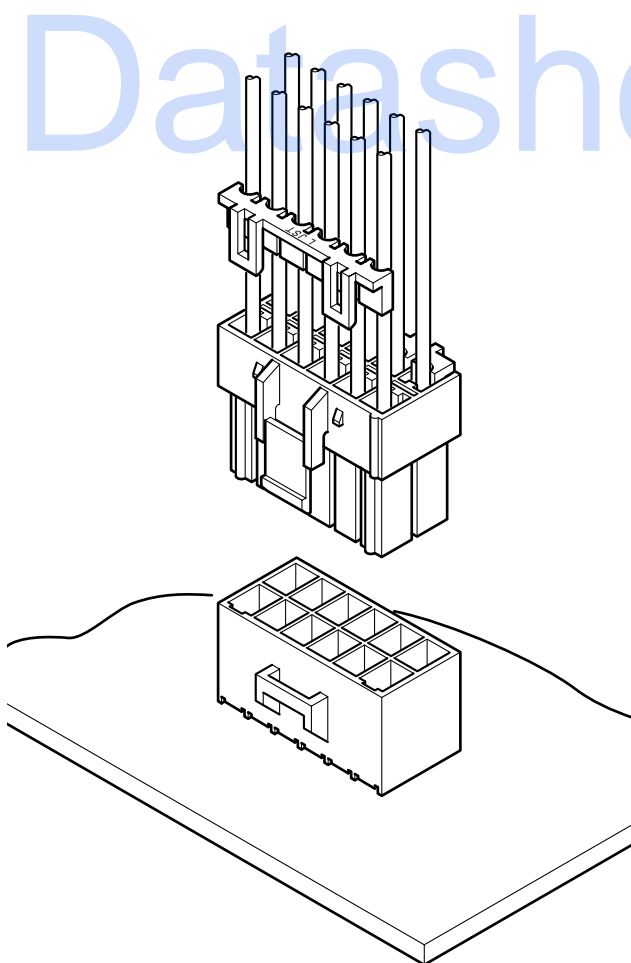
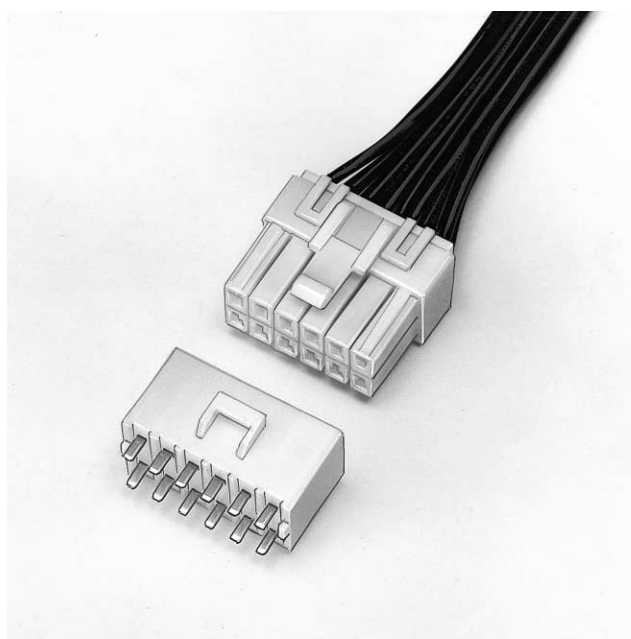


# HL CONNECTOR

Disconnectable Crimp style connectors



## Standards

Recognized E60389 Certified LR20812 R9551072

## Features

### • Housing lances for contact retention

Since the contact retention lances are part of the housing rather than protruding from the contact, they cannot be damaged by handling. They allow the contact to be easily inserted and securely locked into the housing.

### • Secondary retainer

The secondary retainer is optionally available. This retainer ensures that the contacts are fully seated and locked in the housing and prevents their accidental release. Installed after the contacts are inserted, the secondary retainer locks and secures the contacts.

### • Inner-housing lock

The inner-housing lock secures the plug to the receptacle and prevents accidental disconnection. The lock is protected and is not affected by external forces that might result from the routing of wires during assembly.

### • Low insertion force contact

The low insertion force contacts reduce surface finish wear and reduce the effects of stress relaxation.

## Specifications

- Current rating: 7A AC, DC (Refer to the table below.)
- Voltage rating: 300V AC, DC
- Temperature range: -25°C to +90°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.  
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.5 to 2.2mm (.059" to .087")

Note:

The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit:A

Circuits	Wire size(AWG)		
	#18	#20	#22
4	7	5	4
8	6	4	3
12	5	3	3

Note:

Do not branch in parallel current which exceeds the rated current (eg. more than 7A in the case of 4 circuits with AWG #18). If branched in parallel, current imbalance or other problems may develop.

\* Contact JST if Lead-Free product is required.

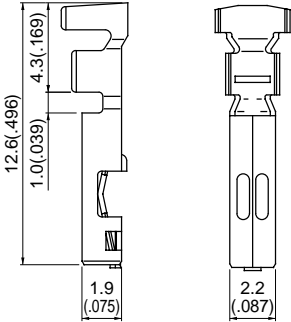
\* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

\* Contact JST for details.

# HL CONNECTOR

## Contact

Model No.	Applicable wire			Q'ty / reel
	mm²	AWG #	Insulation O.D. mm(in.)	
<b>SSF-21T-P1.4</b>	0.3 to 0.75	22 to 18	1.5 to 2.2(.059 to .087)	6,000
Material and Finish				
Phosphor bronze, tin-plated				

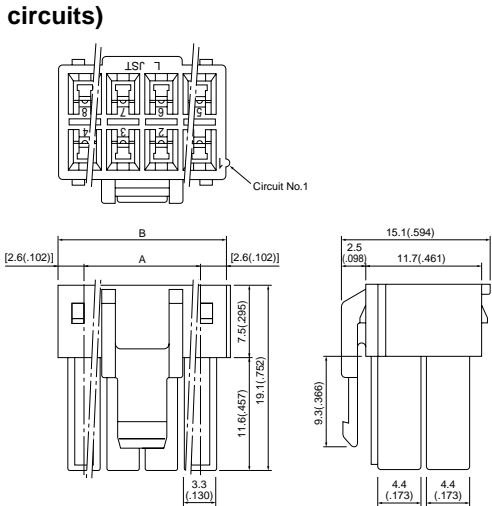
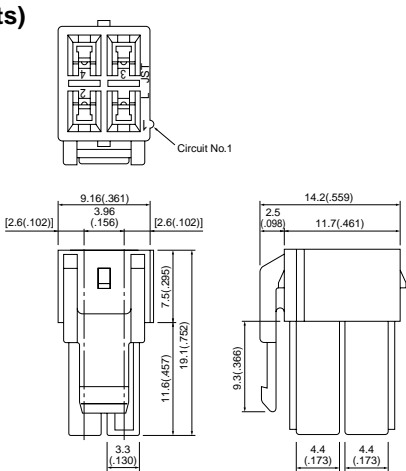


## Housing

Circuits	Model No.	Dimensions mm(in.)		Q'ty / bag
		A	B	
4	<b>HLP-04V</b>	—	—	500
8	<b>HLP-08V</b>	11.88(.468)	17.08(.672)	500
12	<b>HLP-12V</b>	19.8 (.780)	25.0(.984)	500
Material				
Nylon 66, UL94V-0, natural (white)				

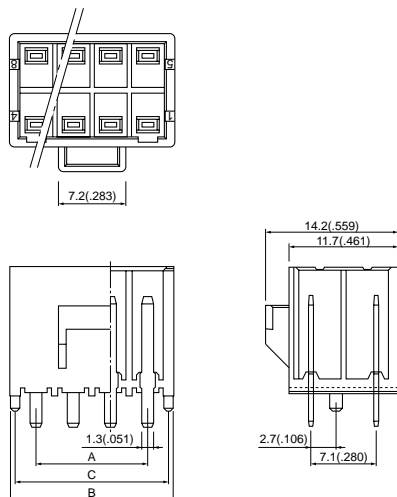
<For reference> As the color identification, the following alphabet shall be put in the underlined part.  
For availability, delivery and minimum order quantity, contact JST.

ex. **HLP-04V-oo**  
(blank)...natural (white)  
E...blue



## Locking header

(4, 8 or 12 circuits)



Circuits	Model No.	Dimensions mm(in.)			Q'ty / box
		A	B	C	
4	<b>B04P-HL-A</b>	3.96( .156)	9.56( .376)	8.46( .333)	200
8	<b>B08P-HL-A</b>	11.88( .468)	17.48( .688)	16.38( .645)	100
12	<b>B12P-HL-A</b>	19.80( .780)	25.40(1.000)	24.30( .957)	50

### Material and Finish

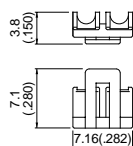
Post: Brass, copper-undercoated, tin/lead-plated  
Wafer: Nylon 66, UL94V-0, natural (white)

<For reference> As the color identification, the following alphabet shall be put in the underlined part.  
For availability, delivery and minimum order quantity, contact JST.

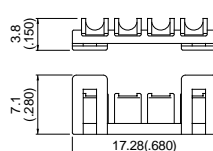
ex. **B04P-HL-A-oo**  
(blank)...natural (white)  
E...blue

## Retainer

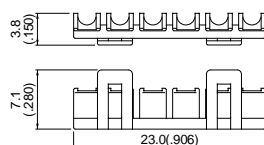
**HLS-02V**



**HLS-08V**



**HLS-12V**



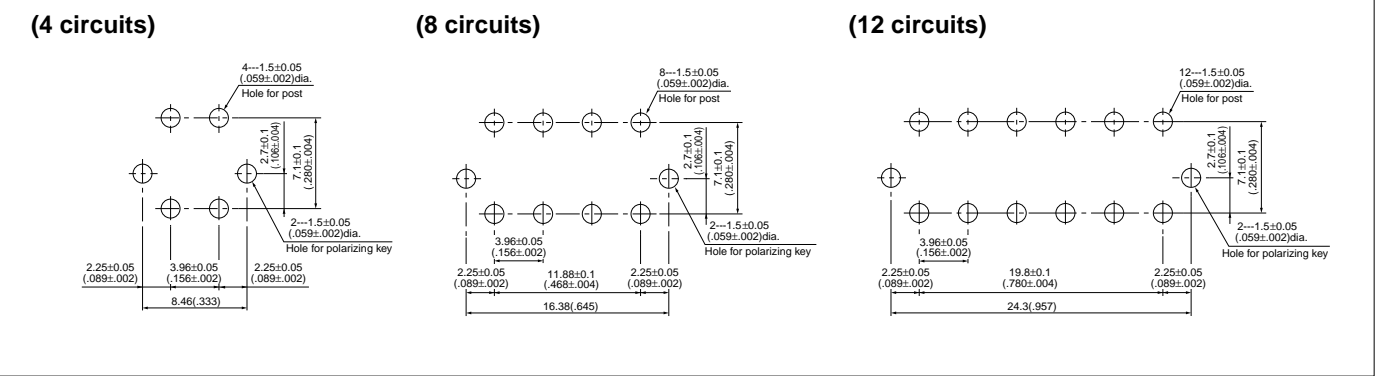
Applicable Housing Model No.	Retainer Model No.	Q'ty / bag
HLP-04V	<b>HLS-02V</b>	1,000
HLP-08V	<b>HLS-08V</b>	1,000
HLP-12V	<b>HLS-12V</b>	1,000

### Material

Glass-filled nylon 66, UL94V-0, natural (ivory)

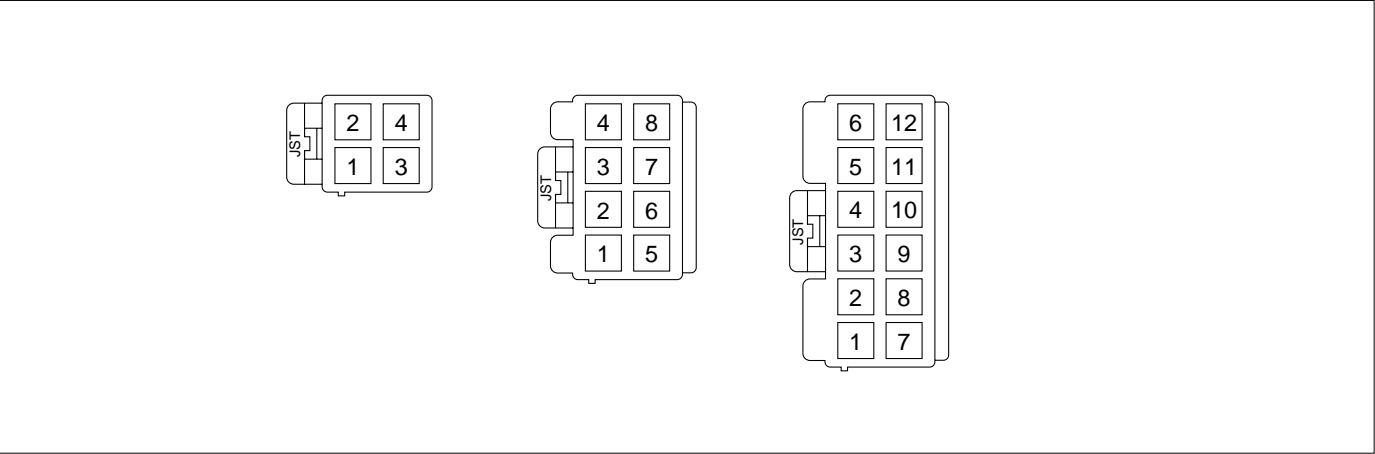
# HL CONNECTOR

## PC board layout (viewed from component side)



Note:  
1. Tolerances are non-cumulative:  $\pm 0.05\text{mm}(\pm .002")$  for all centers.  
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

## Contact position location numbers



## Applicator for the semi-automatic press AP-K2N

Contact	Crimp applicator MKS-L		Compact crimp applicator MKS-LS		Strip-crimp applicator MKS-SC
	with safety cover	without safety cover	with safety cover	without safety cover	with safety cover
SSF-21T-P1.4	APLMK SSF/M21-14	APLNC SSF/M21-14	—	—	APLSC SSF/M21-14