

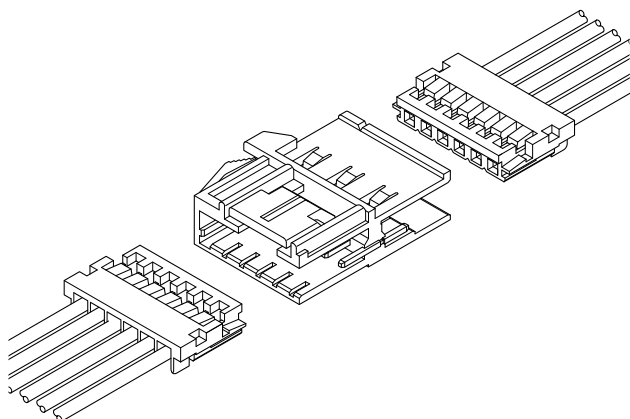
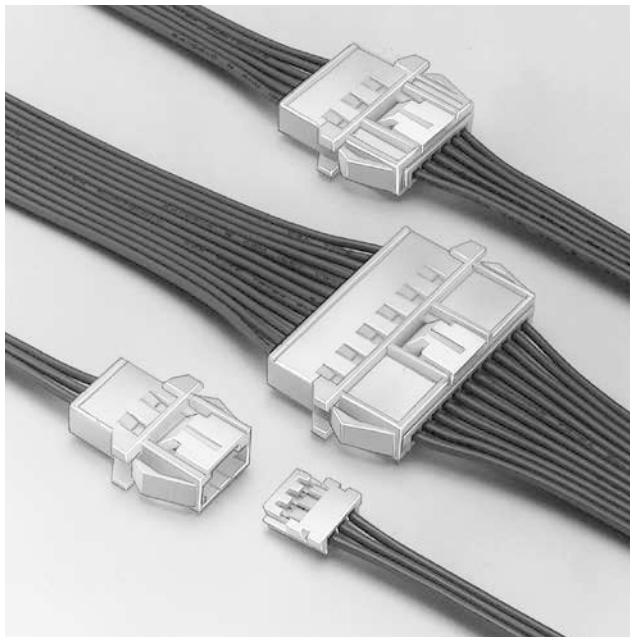
**JST**

Crimp

2.5 mm  
pitch

# THR CONNECTOR

Wire-to-wire connectors - Matable with HR sockets



## Features

- Both crimp style and insulation displacement sockets can be used

Both crimp style and insulation displacement HR connector sockets can be accommodated by the THR connector.

- Arm lock mechanism

An arm lock mechanism securely holds the socket when they are connected.

Releasing the lock is easy.

- Mountable on a variety of panels

Due to our unique panel installation locking mechanisms, the housing can be easily installed on panels of various thickness without using tools.

## Specifications

- Current rating: Crimp style HR connectors type/ 3 A AC/DC  
Insulation displacement HR connectors type/ 2 A AC/DC
- Voltage rating: 250 V AC/DC
- Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15 mΩ max.  
After environmental tests/ 25 mΩ max.
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: 1,000 VAC/minute
- Applicable wire: Crimp style HR connectors type/AWG #26 to #22  
0.13 to 0.33 mm<sup>2</sup>  
Insulation displacement HR connectors type/AWG #28, #26, #24
- Applicable panel thickness: 0.5 to 2.0 mm

\* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).

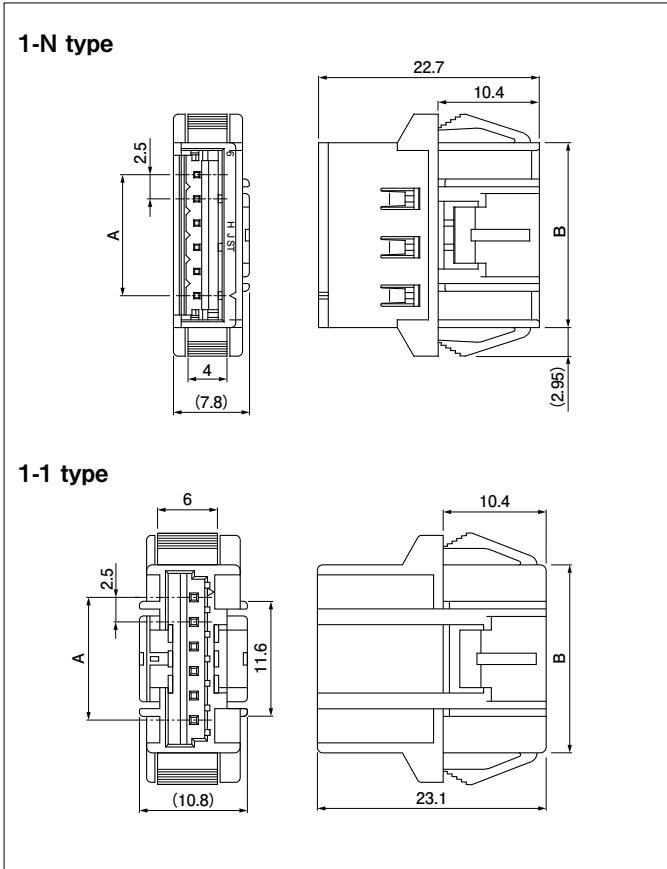
\* RoHS2 compliance

\* Dimensional unit: mm

\* Contact JST for details.

# THR CONNECTOR

## THR Connector



No. of circuits	Model No.		Dimensions (mm)		Q'ty/ bag
	1-N type	1-1 type	A	B	
3	BU03P-THR	BU03P-THR-1-K	5.0	11.6	200
6	BU06P-THR	BU06P-THR-1-K	12.5	19.1	100
12	BU12P-THR	BU12P-THR-1-K	27.5	34.1	50

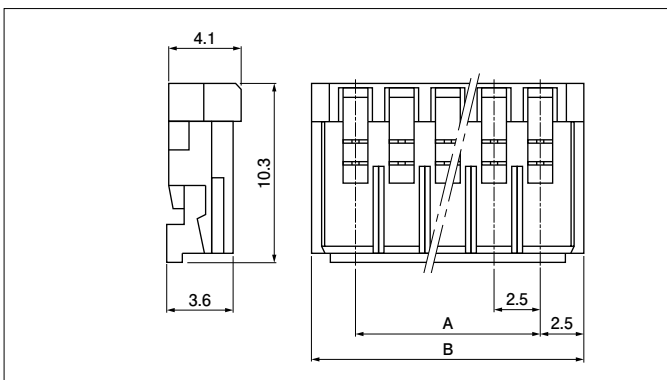
### Material and Finish

Housing: PA 66, UL94V-0

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

**RoHS2 compliance** This product displays (LF)(SN) on a label.

## Socket / Insulation displacement HR connector



No. of circuits	Model No.			Dimensions (mm)		Q'ty/ box
	#28	#26	#24	A	B	
3	03HR-8M-P-N	03HR-6S-P-N	03HR-4K-P-N	5.0	10.0	1,000
6	06HR-8M-P-N	06HR-6S-P-N	06HR-4K-P-N	12.5	17.5	1,000
12	12HR-8M-P-N	12HR-6S-P-N	12HR-4K-P-N	27.5	32.5	500

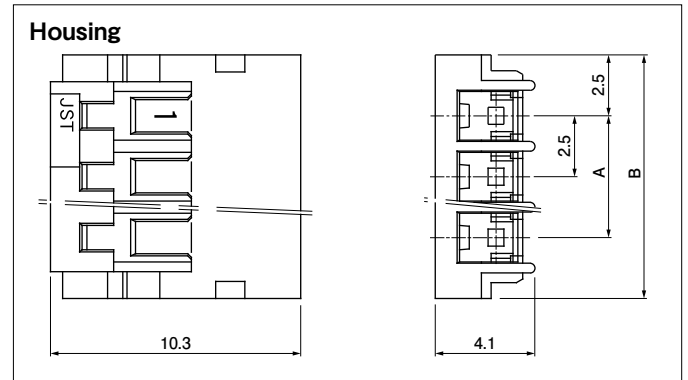
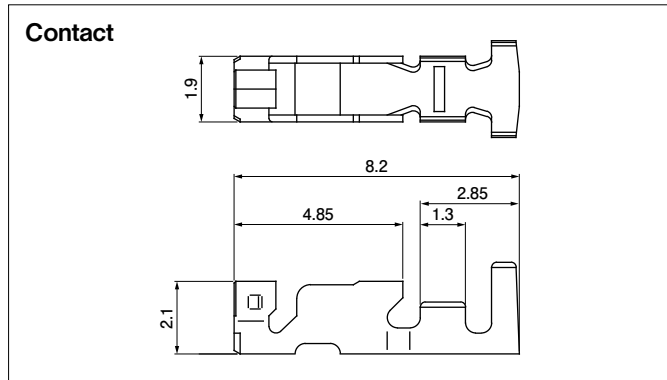
### Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0

**RoHS2 compliance**

## Socket / Crimp style HR connector



Model No.	Applicable wire			Q'ty/ reel
	mm <sup>2</sup>	AWG #	Insulation O.D. (mm)	
SHR-001T-P0.6	0.13 to 0.33	26 to 22	1.3 to 1.7	9,000

**Material and Finish**  
Phosphor bronze, tin-plated (reflow treatment)

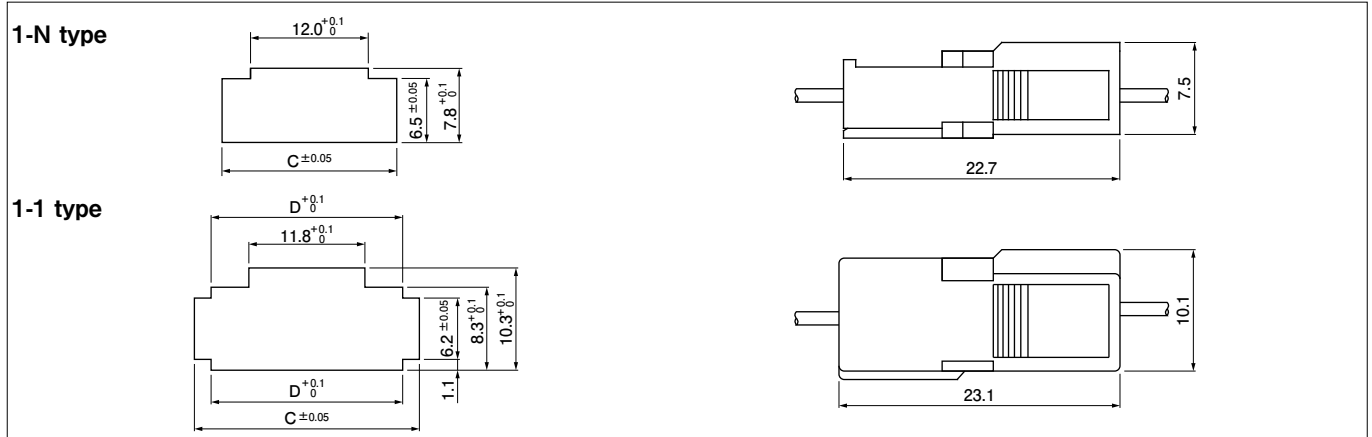
RoHS2 compliance

No. of circuits	Model No.	Dimensions (mm)		Q'ty/ bag
		A	B	
3	HRP-03-S	5.0	10.0	2,000
6	HRP-06-S	12.5	17.5	1,000
12	HRP-12-S	27.5	32.5	500

**Material and Finish**  
PA 66, UL94V-0

RoHS2 compliance

## Panel layout and Assembly layout



### 1-N type

No. of circuits	Model No.	Panel hole dimensions C (mm)	Applicable Panel thickness (mm)
3	BU03P-THR	15.3	0.5 to 2.0
6	BU06P-THR	22.8	
12	BU12P-THR	37.8	

### 1-1 type

No. of circuits	Model No.	Panel hole dimensions (mm)		Applicable Panel thickness (mm)
		C	D	
3	BU03P-THR-1-K	15.3	11.8	0.5 to 2.0
6	BU06P-THR-1-K	22.8	19.3	
12	BU12P-THR-1-K	37.8	34.3	

- Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.  
 2. The strength of the panel must be considered when punching two or more holes.  
 3. Hole punching direction shall be the same as the mounting direction of the THR connector to the panel.

## Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHR-001T-P0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06

Note: Contact JST for fully automatic crimping applicator.