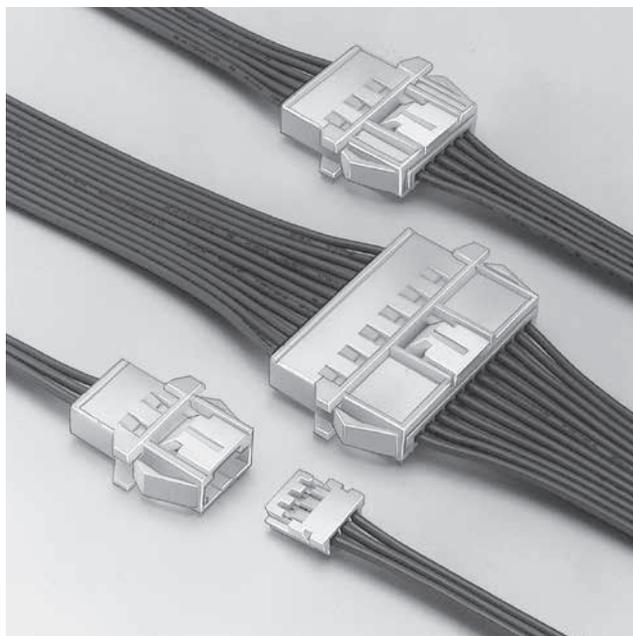
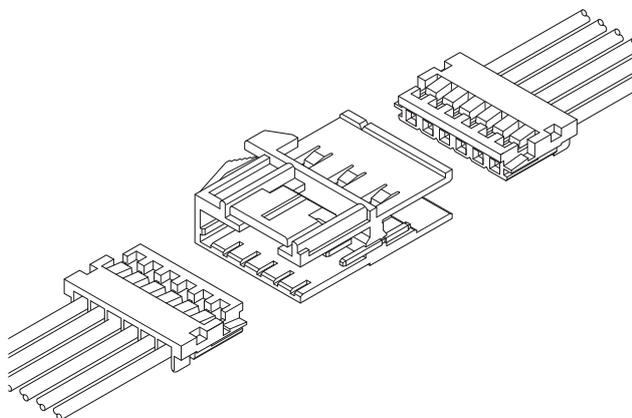


# THR CONNECTOR

Wire-to-Wire connectors



This is a 2.5 mm pitch wire-to-wire connector designed to be compatible with HR connector. The arm lock and panel lock structures provide easy installation and releasing.



## 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 range: Crimp style HR connector/  
AWG #26 to AWG #22  
0.13 mm<sup>2</sup> to 0.33 mm<sup>2</sup>  
IDC style HR connector/  
AWG #28, AWG #26, AWG #24
  - Applicable panel thickness: 0.5 mm to 2.0 mm
- Note) Does not comply with Japan Electrical Appliance and Material Safety Law.

\* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.

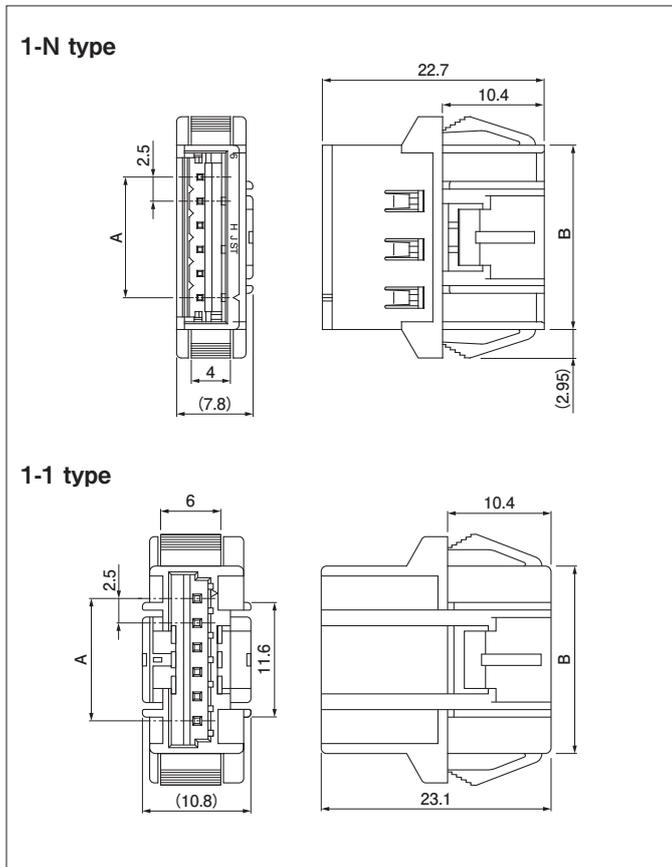
\* RoHS2 compliance

\* 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

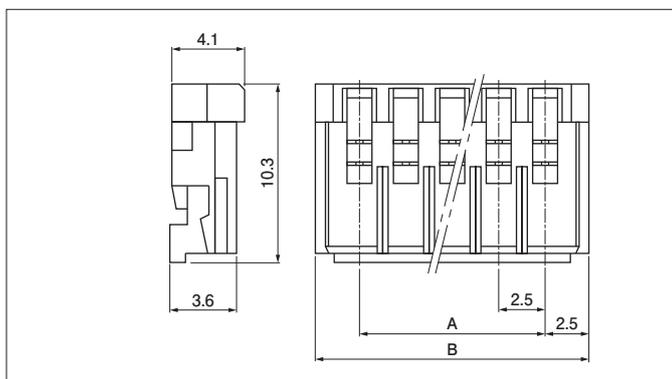
### Material and Surface finish, etc.

Housing: PA 66  
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

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

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

## Socket / IDC style 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

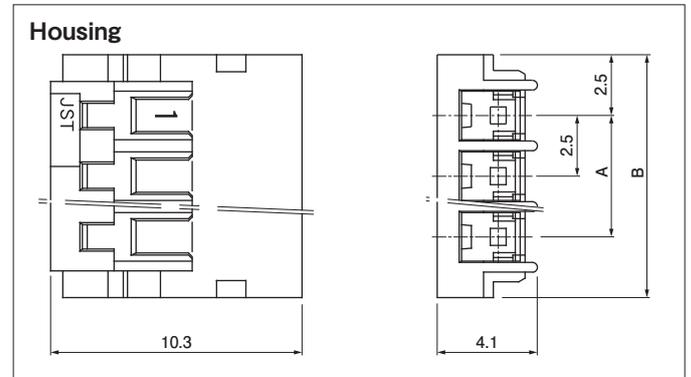
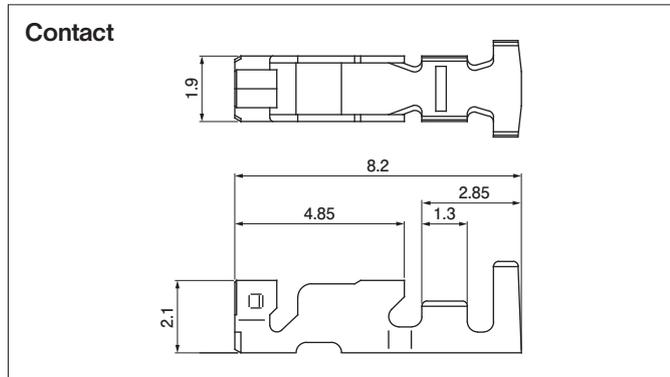
### Material and Surface finish, etc.

Contact: Phosphor bronze, tin-plated (reflow treatment)  
Housing: PA 66

**RoHS2 compliance**

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

## 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 Surface finish, etc.

Phosphor bronze, tin-plated (reflow treatment)

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 Surface finish, etc.

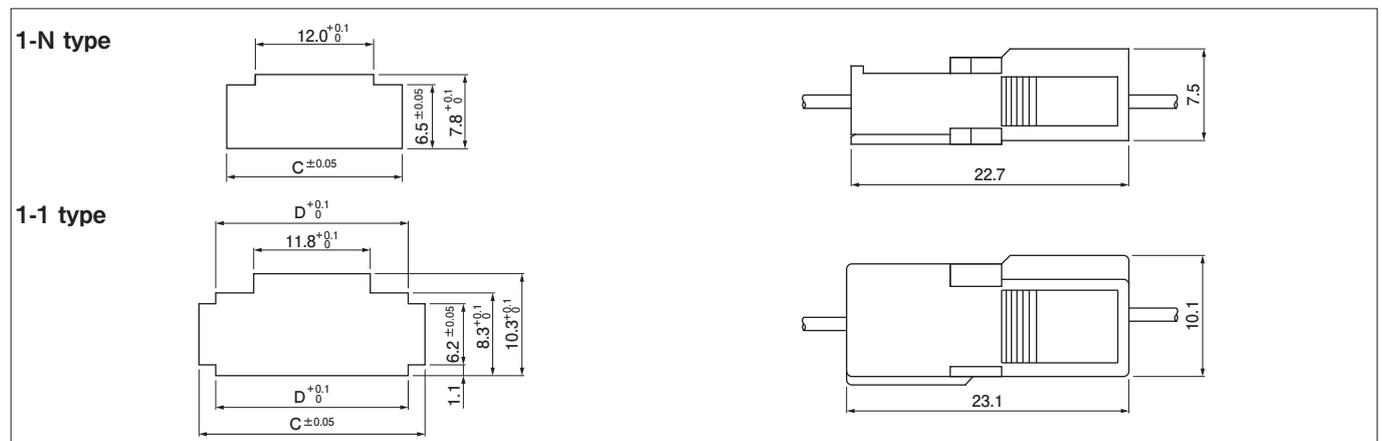
PA 66

RoHS2 compliance

RoHS2 compliance

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

## 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.