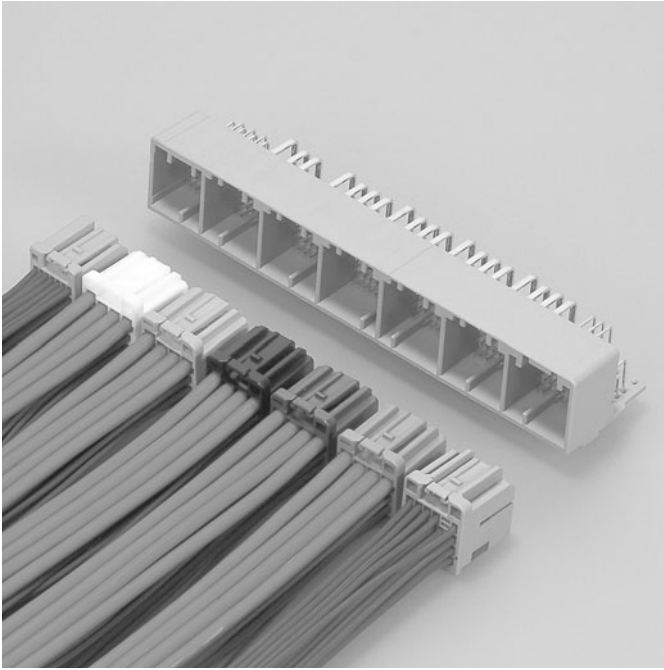


# HIT CONNECTOR

## Board-to-wire



The HIT connector is multi-circuit and miniaturized for ECU for the automobile.  
Female connector is divided into seven housings, and considers the ergonomics and workability.

### Features

#### ●Multi-circuit structure, Miniaturized

Current products available are up to 180-circuit. Although this connector is multi-circuit, it was miniaturized by narrow pitch. The insertion force in the mating operation of one time is decreased by block division structure.

#### ●Reliability

It conforms to the automotive performance evaluation standard.

#### ●Diversity

It is hybrid structures of using 0.64mm and 2.8mm terminals. Large current circuit is also available.

### Specifications

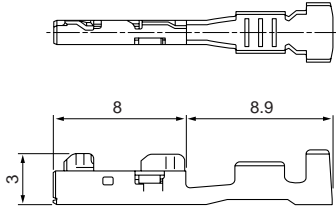
- Current rating: 0.64 Terminal; 5A AC, DC (0.5mm<sup>2</sup>, Single circuit)  
2.8 Terminal; 25A AC, DC (5mm<sup>2</sup>, Single circuit)
- Voltage rating: 14V AC, DC
- Temperature range: -40°C to +100°C  
(including temperature rise in applying electrical current)
- Contact resistance: 0.64 Terminal;  
Initial value/20mΩ max.  
After environmental testing/20mΩ max.  
2.8 Terminal;  
Initial value/5mΩ max.  
After environmental testing/5mΩ max.
- Insulation resistance: 20MΩ min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: TXL/ AVSS/ CAVS  
0.64 Terminal; 0.3mm<sup>2</sup> to 0.85mm<sup>2</sup>  
2.8 Terminal; 0.85mm<sup>2</sup> to 5.0mm<sup>2</sup>

\* Compliant with ELV/RoHS.

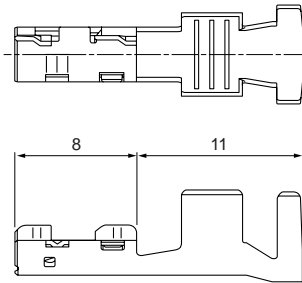
\* Contact JST for details.

## Female terminal

### • 0.64 female terminal



### • 2.8 female terminal



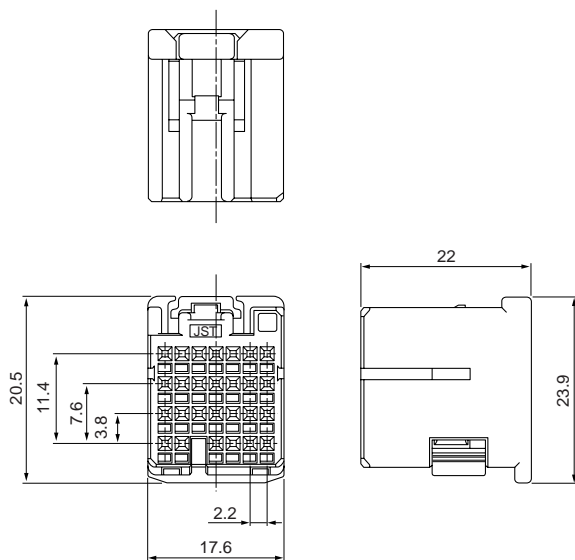
Terminal	Model No.	Applicable wire	Q'ty/reel
		Conductor(mm <sup>2</sup> )	
0.64S	<b>SNAC3-A021T-M0.64</b>	0.3 to 0.5	5,000
0.64M	<b>SNAC3-A031T-M0.64</b>	0.5 to 0.85	5,000
2.8S	<b>SNAC-A061T-M2.8</b>	0.85 to 1.3	3,000
2.8M	<b>SNAC-A081T-M2.8</b>	2.0 to 3.3	2,500
2.8L	<b>SNAC-A091T-M2.8</b>	3.0 to 5.0	2,000

### Material and Finish

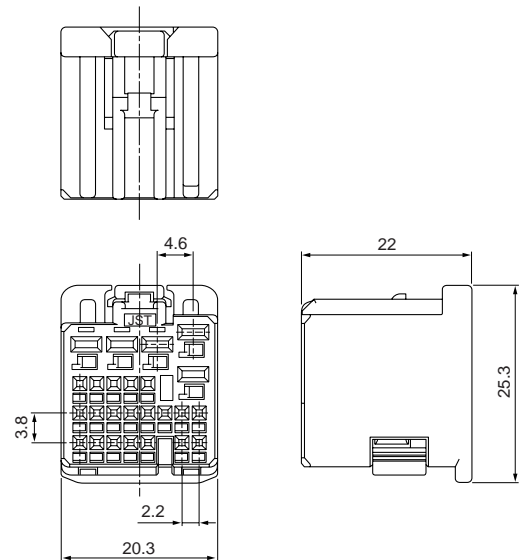
Copper alloy, tin-plated (reflow treatment)

## Female connector

### • A Block

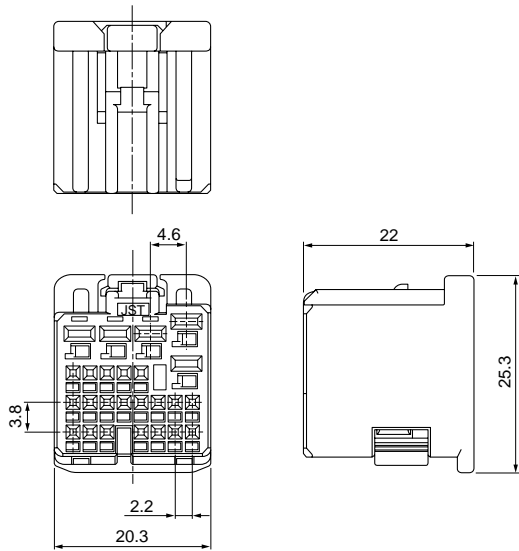


### • B Block

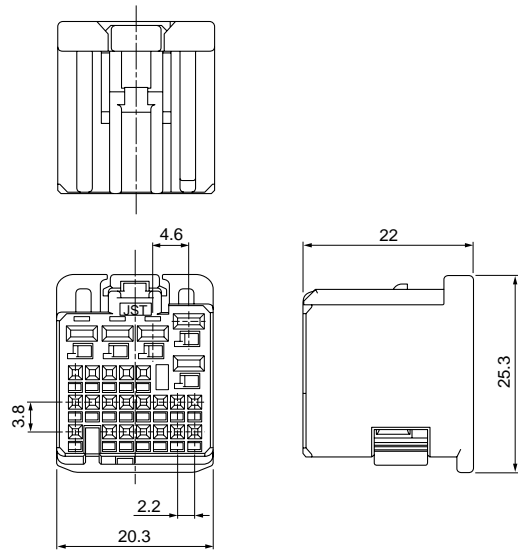


## Female connector

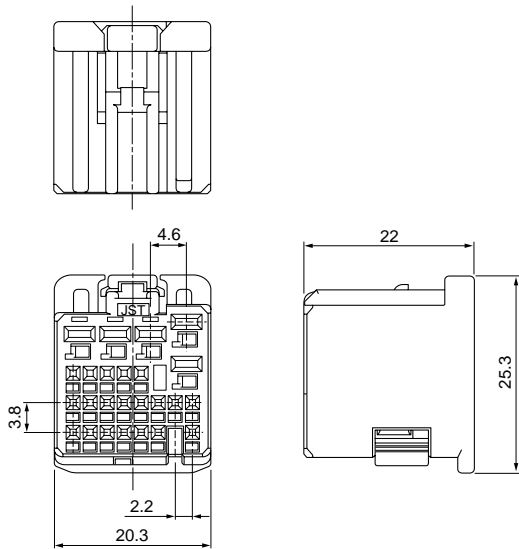
### • C Block



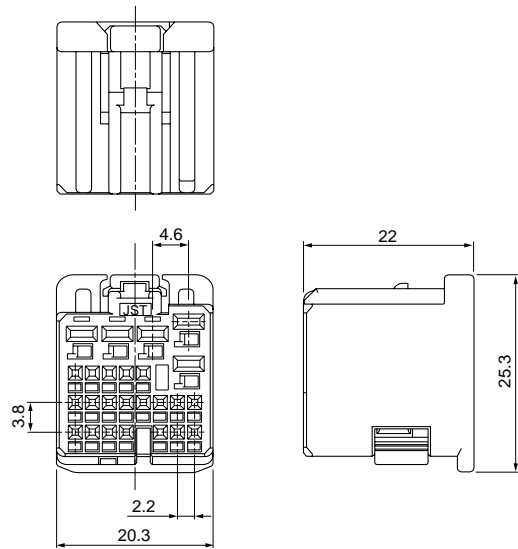
### • D Block



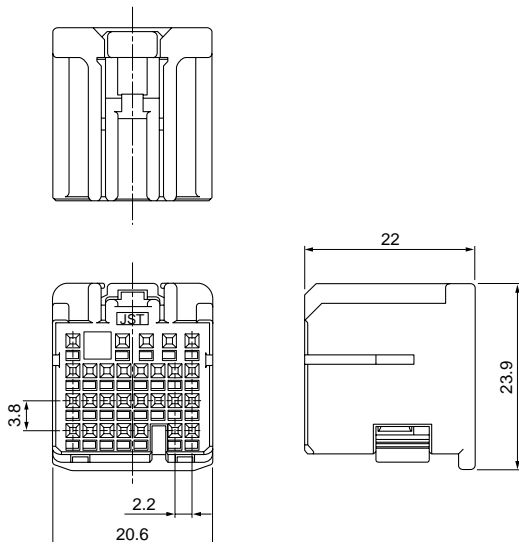
### • E Block



### • F Block



### • G Block



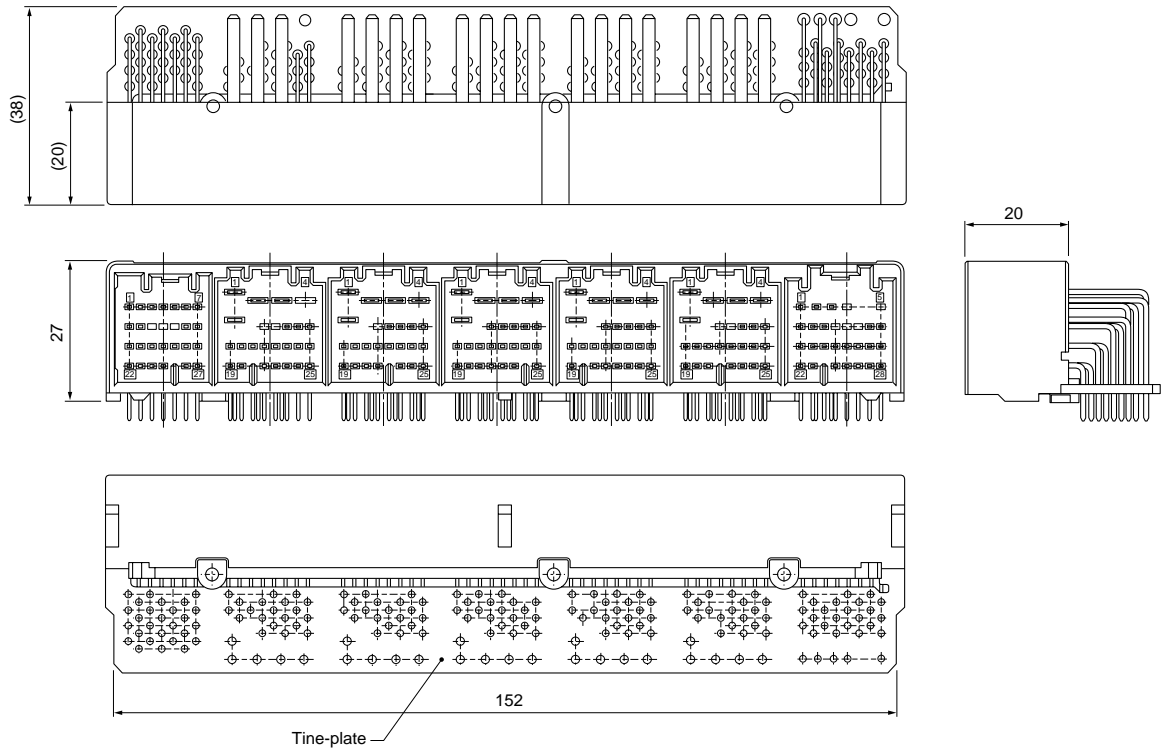
Type	Circuits	Model No.	Q'ty/box	Color	
				Housing	Retainer
A Block	27	HITPB-27-A-LM	96	Light green	Blue
B Block	25	HITPB-25-B-S	80	Natural (White)	Blue
C Block		HITPB-25-C-LE	80	Light blue	Blue
D Block		HITPB-25-D-K	80	Black	Blue
E Block		HITPB-25-E-N	80	Brown	Blue
F Block		HITPB-25-F-PK	80	Pink	Blue
G Block	28	HITPB-28-G-H	80	Grey	Blue

#### Material

Housing: PBT  
Retainer: PBT

Note: Contact JST for other circuits.

## Header

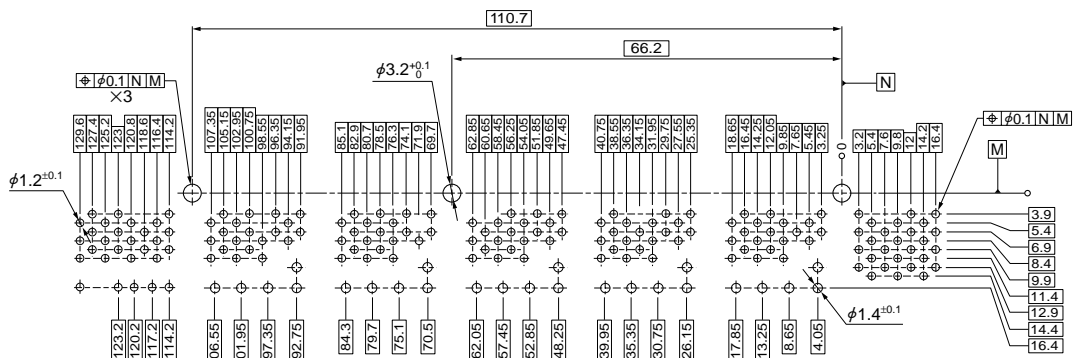


Circuits	Model No.	Q'ty/box
169	<b>S169B-HITHTP-01A</b>	105

### Material and Finish

Housing: Glass-filled PBT  
 Tine-plate: Glass-filled PBT  
 Signal pin: Brass, nickel-undercoated, tin-plated (reflow treatment)  
 Power pin: Copper alloy, nickel-undercoated, tin-plated (reflow treatment)

## PC board layout



## Crimping machine, Applicator, Hand crimp tool

Strip terminal	Crimping machine	Crimp applicator MKS-L		Hand crimp tool
		Dies	Crimp applicator with dies	
SNAC3-A021T-M0.64	AP-K2N	MK/SNAC3-A021-064	APLMK SNAC3-A021-064	YRK-1003
SNAC3-A031T-M0.64		MK/SNAC3-A031-064	APLMK SNAC3-A031-064	YRK-1012
SNAC-A061T-M2.8		MK/SNAC-A061-28	APLMK SNAC-A061-28	—
SNAC-A081T-M2.8		MK/SNAC-A081-28	APLMK SNAC-A081-28	—
SNAC-A091T-M2.8		MK/SNAC-A091-28	APLMK SNAC-A091-28	—

Note: When crimping operation is conducted using an applicator and die set other than the above, JST cannot guarantee the performance of the terminal.