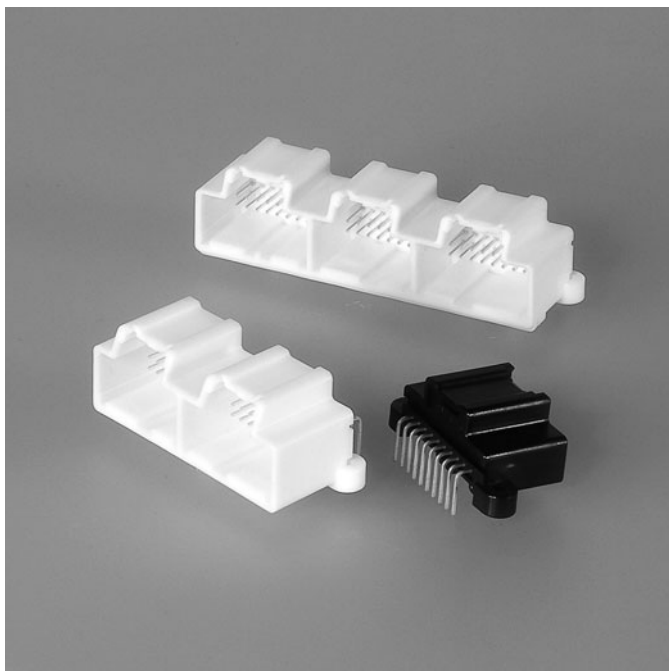


# AIT CONNECTOR

## Board-to-wire/Wire-to-wire

### Features

- Compliant with the Standard 0.64 Unsealed USCAR Footprints and USCAR Performance Standards
- Variations in PCB mountings



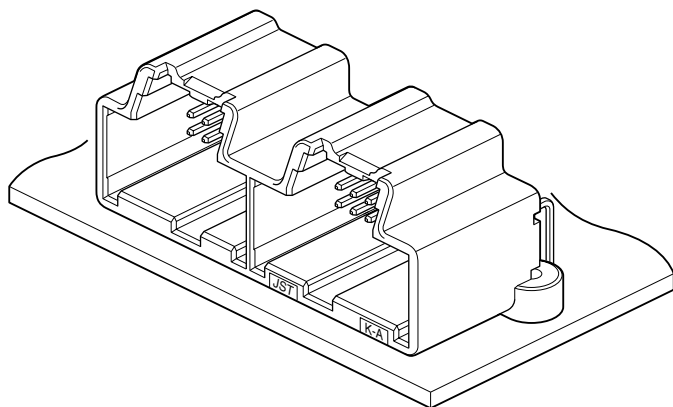
0.64 unsealed connector series compliant with the standard USCAR footprints.

Variations of Keying / Color options and PC Board mounting features are available to satisfy customer's needs.

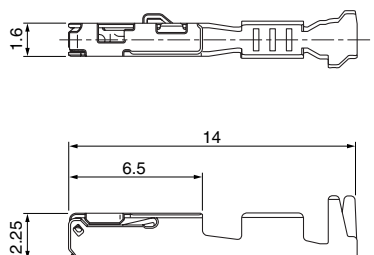
### Specifications

- Current rating: 5A DC max.
- Voltage rating: 14V DC
- Temperature range: -40°C to +100°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/15mΩ max.  
After environmental testing/15mΩ max.
- Insulation resistance: 100MΩ min.
- Applicable wire: SAE/ AVSS / CAVS  
0.3mm<sup>2</sup> to 0.8mm<sup>2</sup>

- \* Compliant with ELV/RoHS.
- \* Contact JST for details.



## Female terminal

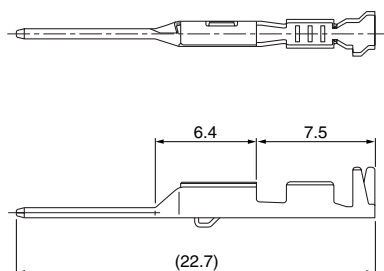


| Size | Model No.        | Applicable wire range        |                      | Q'ty/reel |
|------|------------------|------------------------------|----------------------|-----------|
|      |                  | Conductor (mm <sup>2</sup> ) | Insulation O.D. (mm) |           |
| S    | ①SAIT-A03T-M064  | 0.3 to 0.5                   | ≤1.9                 | 6,500     |
|      | ②SAIT-A03GF-M064 | 0.3 to 0.5                   | ≤1.9                 | 6,500     |
| M    | ①SAIT-A02T-M064  | 0.75 to 0.8                  | ≤1.9                 | 6,500     |
|      | ②SAIT-A02GF-M064 | 0.75 to 0.8                  | ≤1.9                 | 6,500     |

### Material and Finish

- ①Copper alloy, tin-plated (reflow treatment)
- ②Copper alloy, Contact area; gold-plated  
Barrel area; tin-plated

## Male terminal



| Size | Model No.        | Applicable wire range        |                      | Q'ty/reel |
|------|------------------|------------------------------|----------------------|-----------|
|      |                  | Conductor (mm <sup>2</sup> ) | Insulation O.D. (mm) |           |
| S    | ①SAITW-A03T-064  | 0.3 to 0.5                   | ≤1.9                 | 7,000     |
|      | ②SAITW-A03GF-064 | 0.3 to 0.5                   | ≤1.9                 | 7,000     |
| M    | ①SAITW-A02T-064  | 0.75 to 0.8                  | ≤1.9                 | 7,000     |
|      | ②SAITW-A02GF-064 | 0.75 to 0.8                  | ≤1.9                 | 7,000     |

### Material and Finish

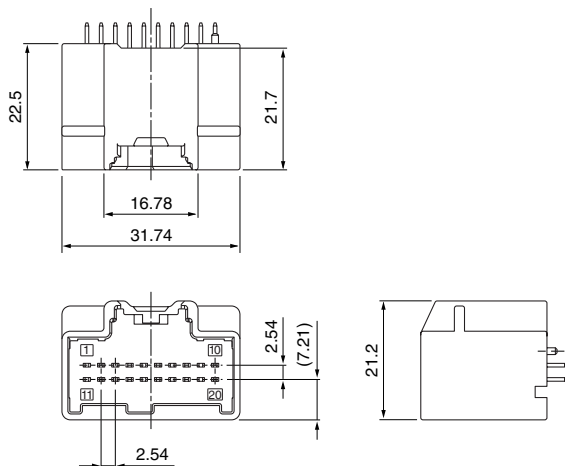
- ①Brass, tin-plated (reflow treatment)
- ②Brass, Contact area; gold-plated  
Barrel area; tin-plated

## Male connector

### Top entry type

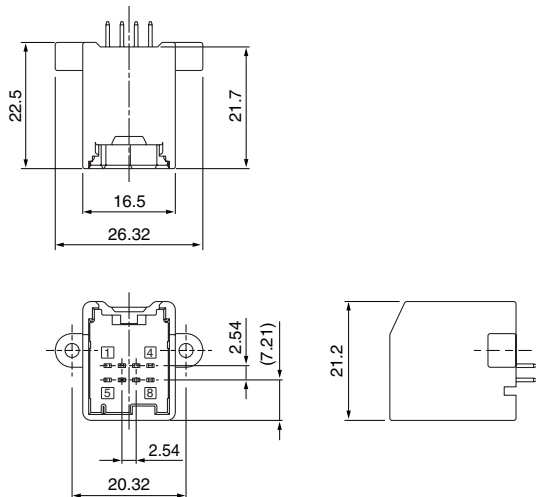
#### With boss

#### ● 20 circuits

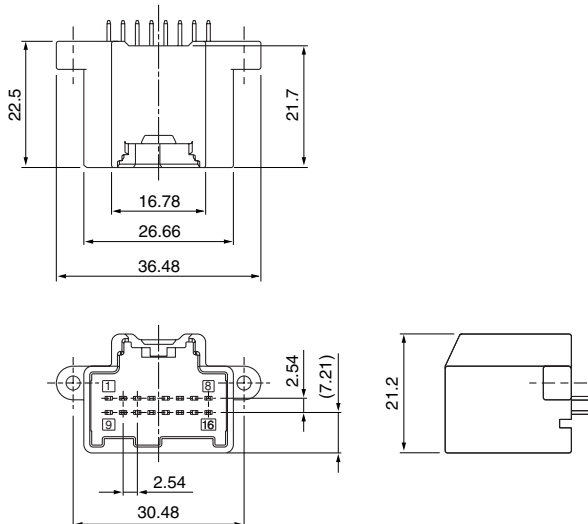


#### Screw hole type

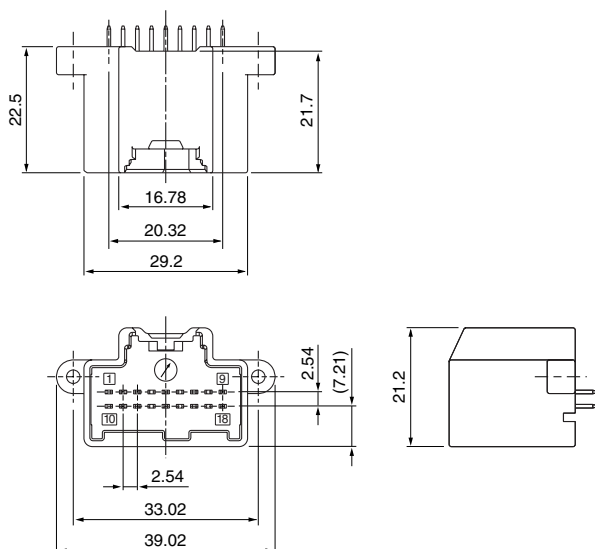
#### ● 8 circuits



#### ● 16 circuits



#### ● 18 circuits



| Circuits | Model No.            | Q'ty/box | Housing Color   |
|----------|----------------------|----------|-----------------|
| 8        | B08B-AIT-A2B-HS      | 96       | Gray            |
|          | B08B-AIT-A2A-KS      | 96       | Black           |
| 16       | B16B-AIT-A2A-KS      | 60       | Black           |
|          | B16B-AIT-A2B-HS      | 60       | Gray            |
| 18       | B18B-AIT-A2F-SS      | 60       | Natural (White) |
| 20       | B20B2-AIT-A2A-KS-(M) | 510      | Black           |
|          | B20B2-AIT-A2C-KS-(M) | 510      | Brown           |

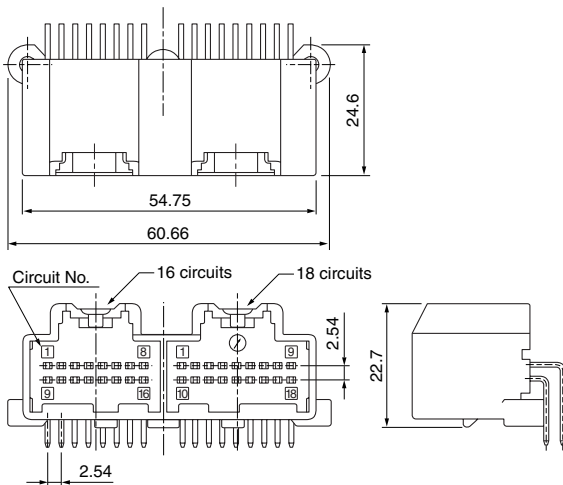
#### Material and Finish

Housing: Glass-filled PA  
Pin: Brass, tin-plated

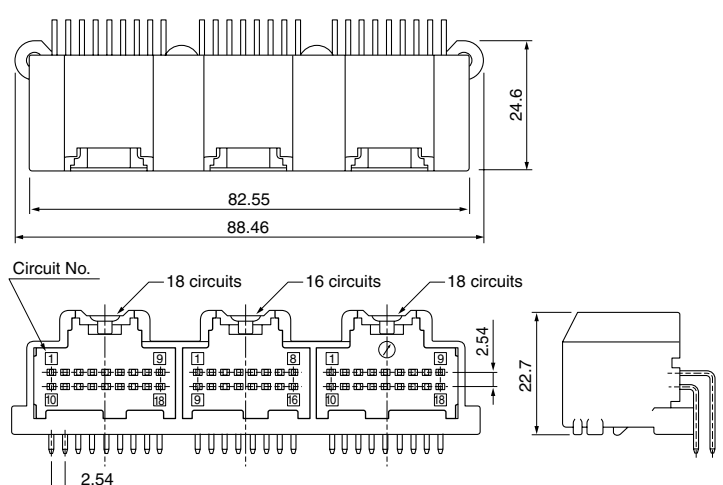
## Male connector

### Side entry type

#### ● 34 circuits

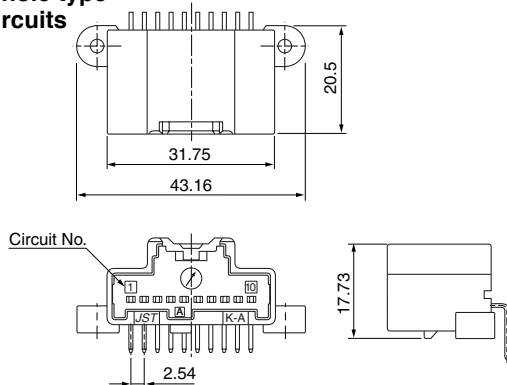


#### ● 52 circuits

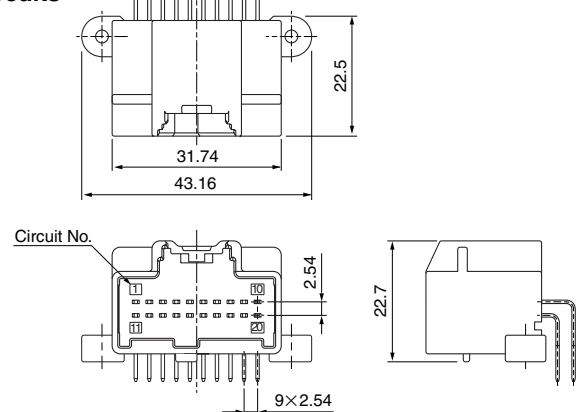


### Screw hole type

#### ● 10 circuits

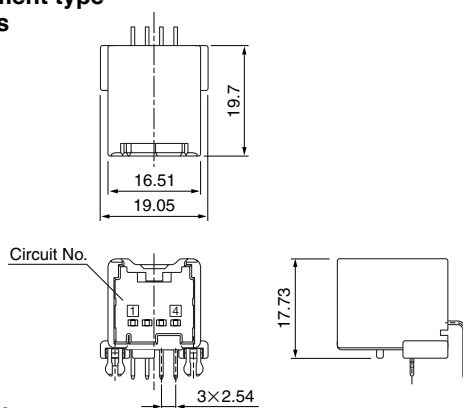


#### ● 20 circuits

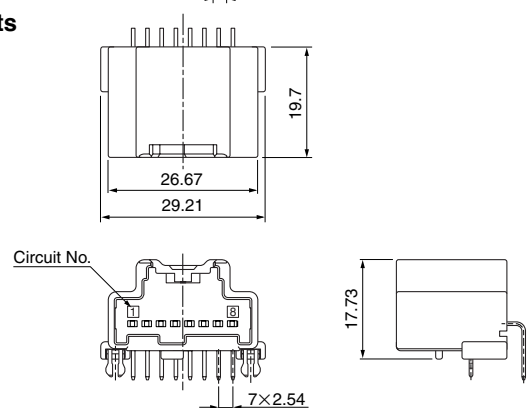


### Reinforcement type

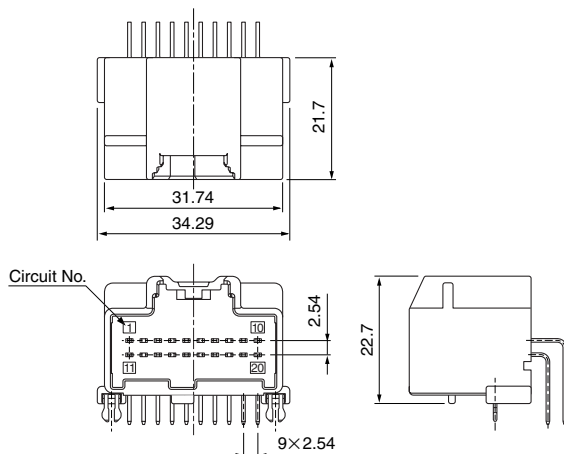
#### ● 4 circuits



#### ● 8 circuits



#### ● 20 circuits



| Type    | Circuits | Model No.            | Q'ty/box | Housing Color   |
|---------|----------|----------------------|----------|-----------------|
| 1 Block | 4        | S04B1-AIT-A1A-KS     | 88       | Black           |
|         | 8        | S08B1-AIT-A1A-KS     | 56       | Black           |
|         | 10       | *S10B-AIT-A1A-KS-(M) | **       | Black           |
|         | 20       | S20B-AIT-A2B-HS      | 24       | Gray            |
|         |          | S20B-AIT-A2A-KS      | 24       | Black           |
|         |          | S20B1-AIT-A2A-KS     | 36       | Black           |
|         |          | S20B1-AIT-A2B-HS     | 36       | Gray            |
| 2 Block | 34       | *S34B-AIT-A22-SS-(M) | **       | Natural (White) |
| 3 Block | 52       | *S52B-AIT-A23-SS-(M) | **       | Natural (White) |

#### Material and Finish

Housing: Glass-filled PBT

Pin: Brass, tin-plated

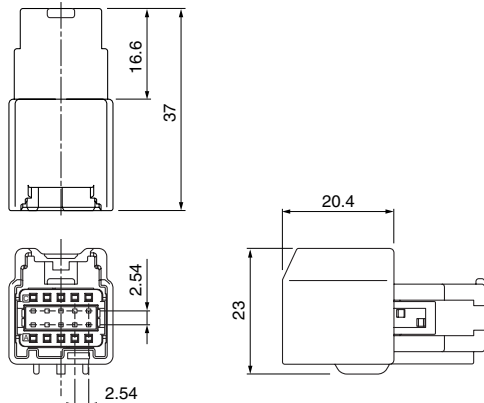
\* Marked products display (LF)(SN) on a label.

\*\* Please contact JST.

# AIT CONNECTOR

## Male connector

### • 10 circuits



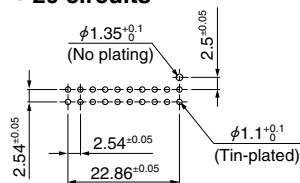
| Circuits                         | Model No.     | Q'ty/box |
|----------------------------------|---------------|----------|
| 10                               | AITWSB-10-2AK | 100      |
| Material                         |               |          |
| Housing: Glass-filled PBT, black |               |          |
| TPA: Glass-filled PBT, red       |               |          |

## PC board layout

### Top entry type

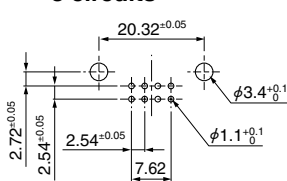
#### With boss

#### • 20 circuits

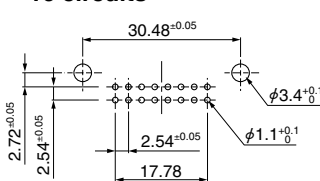


#### Screw hole type

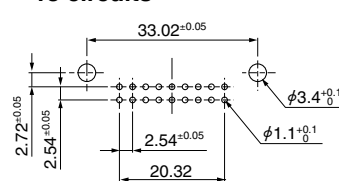
#### • 8 circuits



#### • 16 circuits

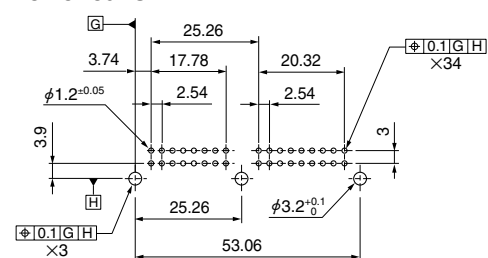


#### • 18 circuits



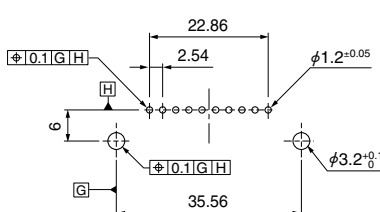
### Side entry type

#### • 34 circuits

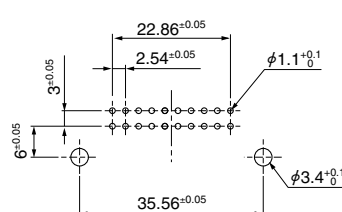


#### Screw hole type

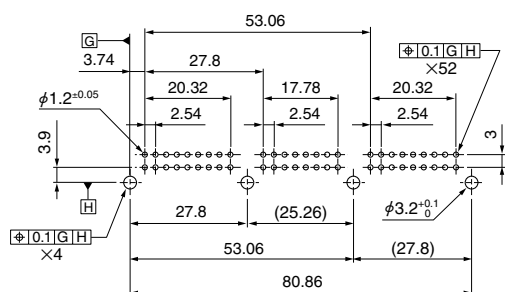
#### • 10 circuits



#### • 20 circuits

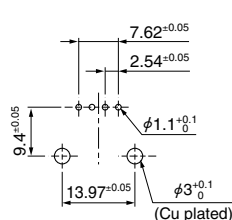


#### • 52 circuits

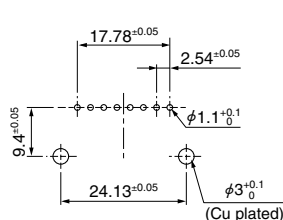


#### Reinforcement type

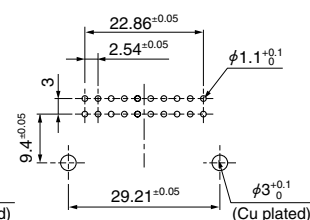
#### • 4 circuits



#### • 8 circuits



#### • 20 circuits



Note: 1. Tolerances are non-cumulative.

2. Hole dimensions differ according to the type of PC board and piercing method.  
The dimensions above should serve as guideline. Contact JST for details.

## Crimping machine, Applicator

| Strip terminal   | Crimping machine | Crimp applicator MKS-L |                            |
|------------------|------------------|------------------------|----------------------------|
|                  |                  | Dies                   | Crimp applicator with dies |
| SAIT-A03( )-M064 | AP-K2N           | MK/SAIT-A03-064        | APLMK SAIT-A03-064         |
| SAIT-A02( )-M064 |                  | MK/SAIT-A02-064        | APLMK SAIT-A02-064         |
| SAITW-A03( )-064 |                  | MK/SAITW-A03-064       | APLMK SAITW-A03-064        |
| SAITW-A02( )-064 |                  | MK/SAITW-A02-064       | APLMK SAITW-A02-064        |

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

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