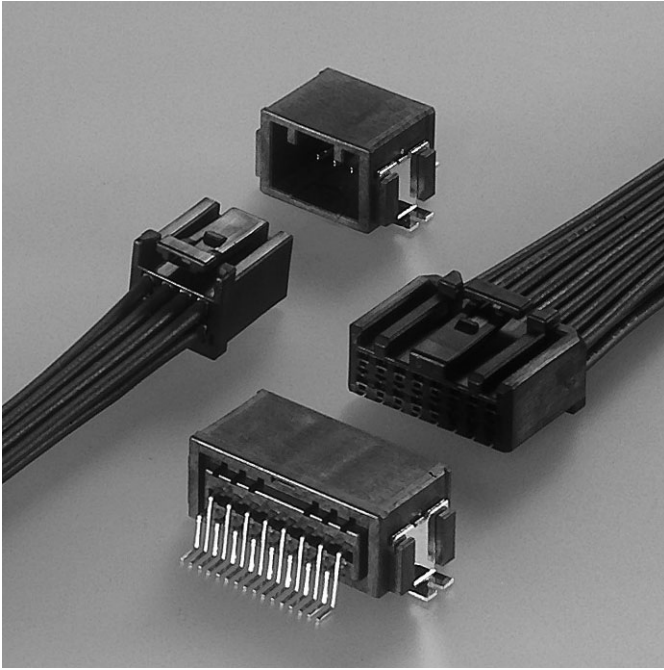


# CPT CONNECTOR

Board-to-wire



## Features

### ● Compact design

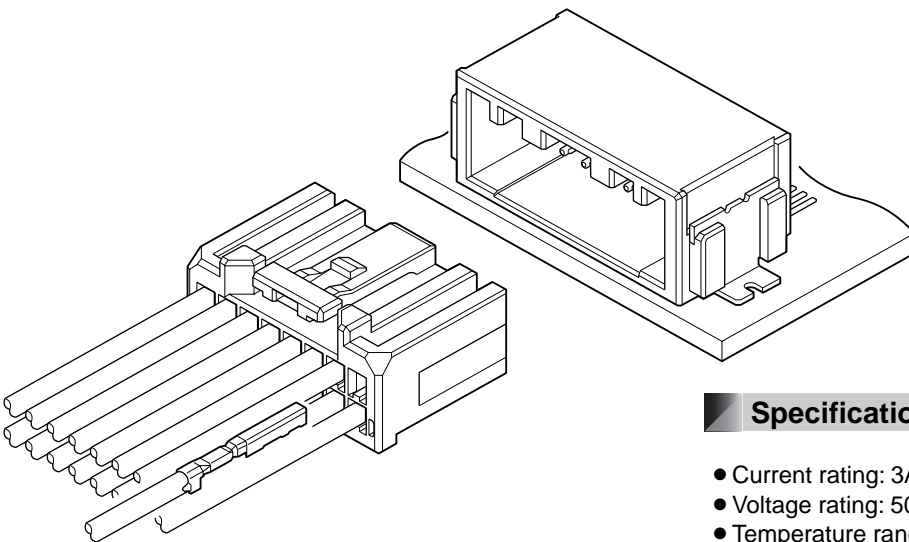
2.0mm pitch is realized miniaturization and low profile as the connector for automobile.

### ● Terminal construction

Female terminal is designed for simple box structure by having spring structure on male terminal.

Developed in pursuit of miniaturization and low profile as PC board connector for automobile.

This connector is surface mounting type connector having the spring structure on male terminal disproving the conventional concept.



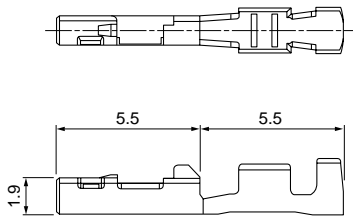
## Specifications

- Current rating: 3A AC, DC (0.3mm<sup>2</sup>, Single circuit)
- Voltage rating: 50V AC, DC
- Temperature range: -40°C to +100°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/8mΩ max.  
After environmental testing/16mΩ max.
- Insulation resistance: 100MΩ min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AESX-f/ AVSS  
0.3mm<sup>2</sup>

\* Compliant with ELV/RoHS.

\* Contact JST for details.

## Female terminal



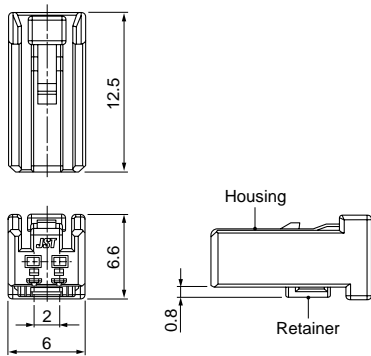
Model No.	Applicable wire range		Q'ty/reel
	Conductor (mm <sup>2</sup> )	Insulation O.D. (mm)	
<b>SCPT-A021GF-0.5</b>	0.3	1.4	15,000

### Material and Finish

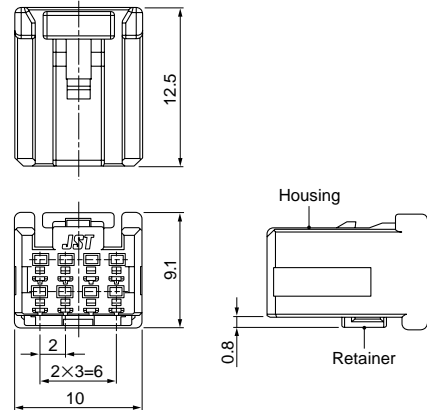
Brass, nickel-undercoated, Contact area; gold-plated  
Barrel area; tin-plated

## Female connector

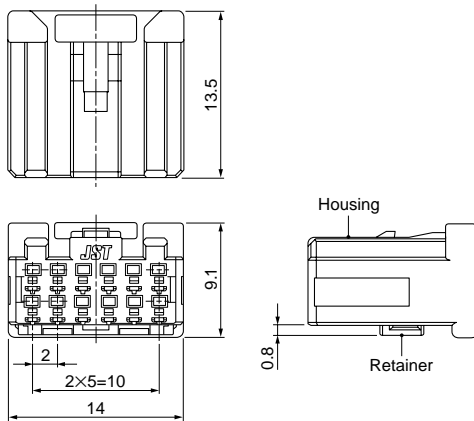
### • 2 circuits



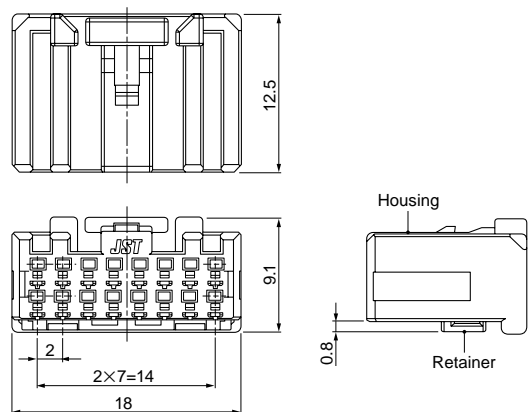
### • 8 circuits



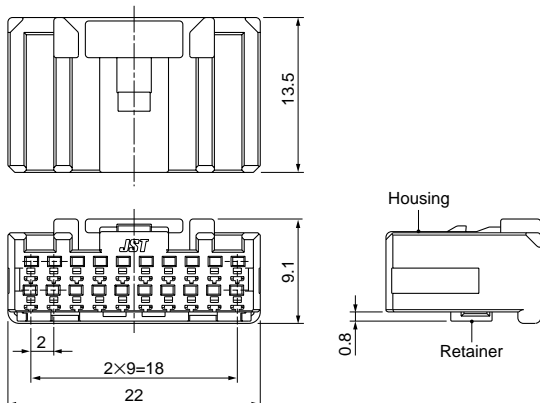
### • 12 circuits



### • 16 circuits



### • 20 circuits



Circuits	Model No.	Q'ty/box
2	<b>02CPT-B-2A</b>	500
8	<b>08CPT-B-2A</b>	500
12	<b>12CPT-B-2A</b>	300
16	<b>16CPT-B-2A</b>	250
20	<b>20CPT-B-2A</b>	250

### Material

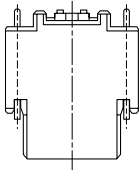
Housing: Glass-filled PBT, black  
Retainer: Glass-filled PBT, blue

# CPT CONNECTOR

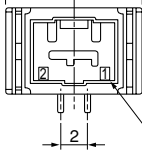
## Male connector

### Top entry type

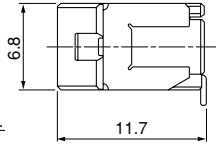
#### ● 2 circuits



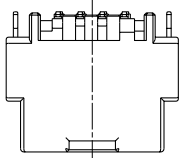
10.5



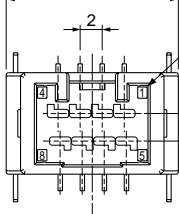
Circuit No.



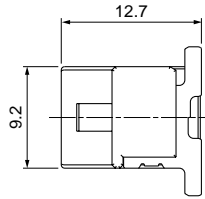
#### ● 8 circuits



15.6



Circuit No.



Circuits	Model No.	Q'ty/reel
2	<b>BM02B-CPTK-1A-TB</b>	370
8	<b>BM08B-CPTK-1A-TB</b>	240

#### Material and Finish

Terminal: Copper alloy, nickel-undercoated,  
Contact area; gold-plated  
Solder tail; tin-plated (reflow treatment)

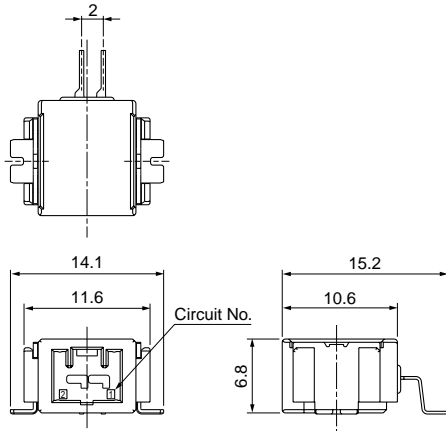
Housing: Glass-filled LCP, black

Peg: Brass, nickel-undercoated, tin-plated (reflow treatment)

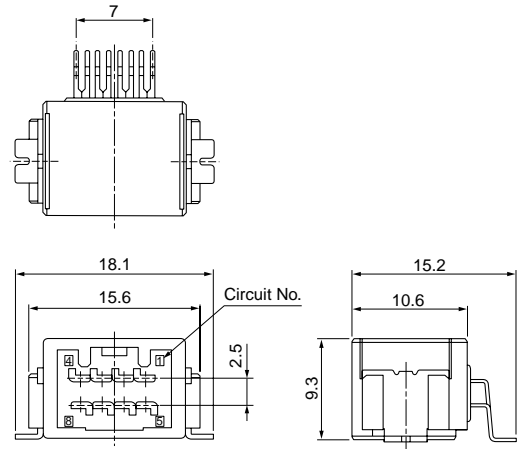
## Male connector

### Side entry type

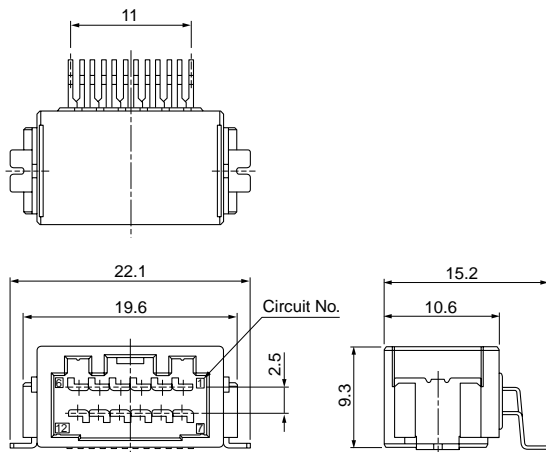
#### • 2 circuits



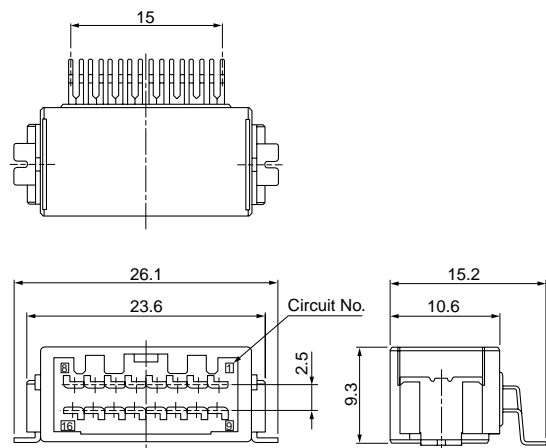
#### • 8 circuits



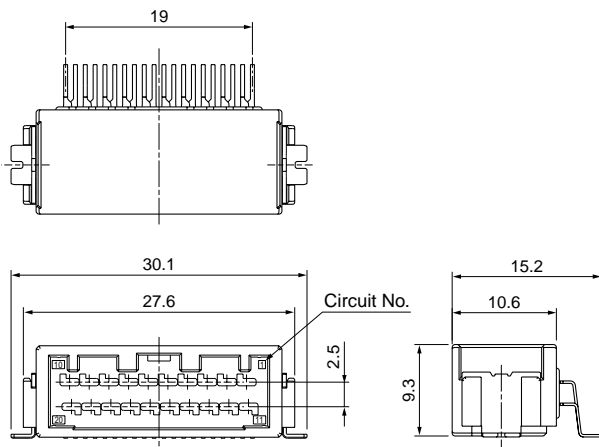
#### • 12 circuits



#### • 16 circuits



#### • 20 circuits



Circuits	Model No.	Q'ty/reel
2	<b>SM02B-CPTK-1A-TB</b>	500
8	<b>SM08B-CPTK-1A-TB</b>	390
12	<b>SM12B-CPTK-1A-TB</b>	390
16	<b>SM16B-CPTK-1A-TB</b>	390
20	<b>SM20B-CPTK-1A-TB</b>	390

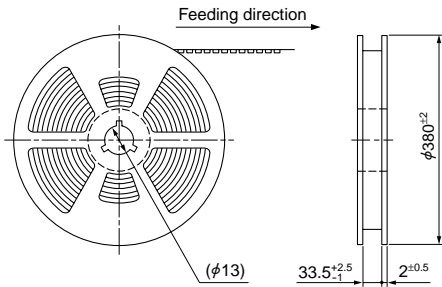
#### Material and Finish

Terminal: Copper alloy, nickel-undercoated,  
 Contact area; gold-plated  
 Solder tail; tin-plated (reflow treatment)  
 Housing: Glass-filled LCP, black  
 Peg: Brass, nickel-undercoated, tin-plated (reflow treatment)

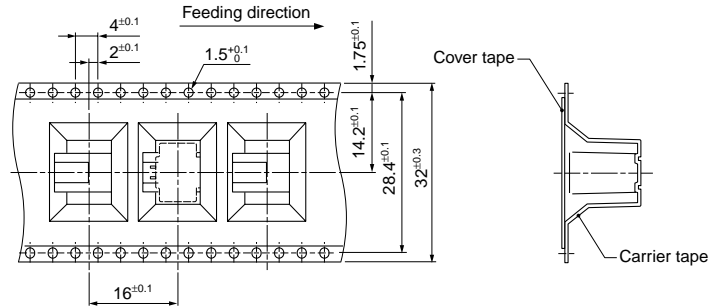
## Taping Specifications

### Top entry type

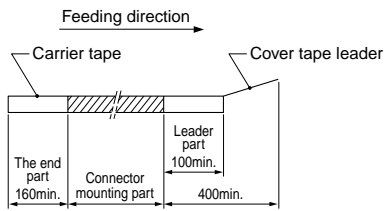
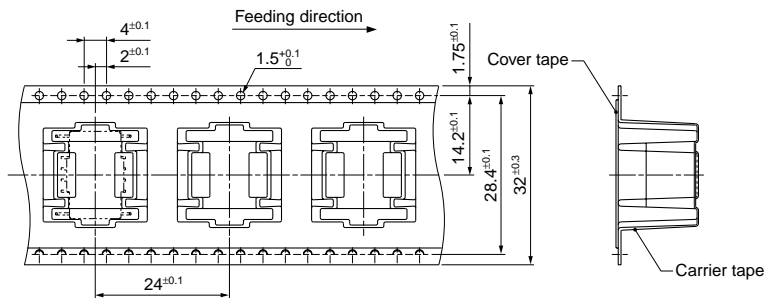
- 2, 8 circuits



- 2 circuits

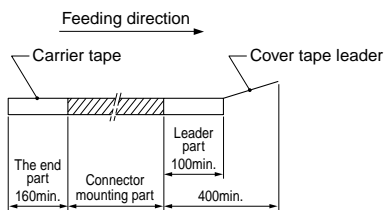
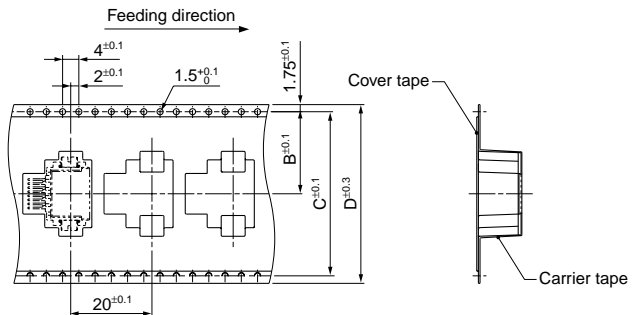
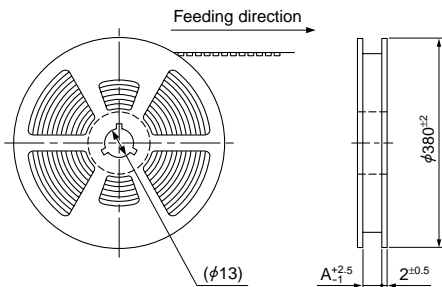


- 8 circuits



### Side entry type

- 2, 8, 12, 16, 20 circuits

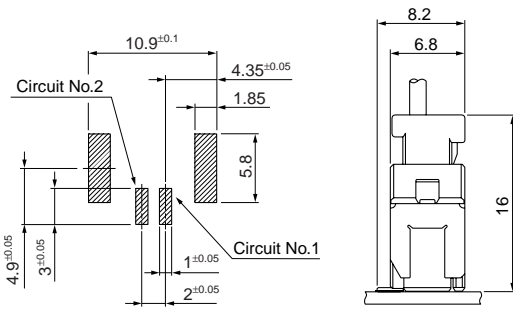


Circuits	A	B	C	D
2	33.5	14.2	28.4	32
8	45.5	20.2	40.4	44
12	45.5	20.2	40.4	44
16	45.5	20.2	40.4	44
20	45.5	20.2	40.4	44

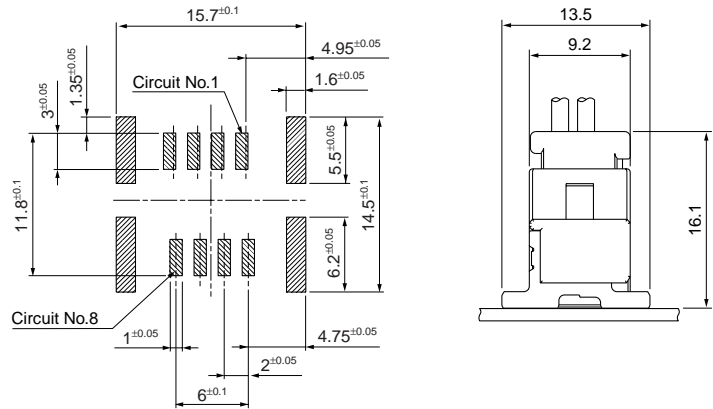
## PC board layout, Assembly layout

### Top entry type

#### ● 2 circuits

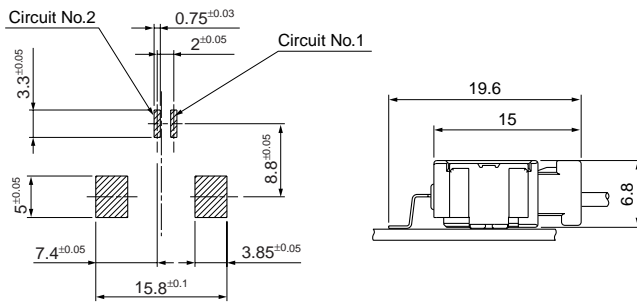


#### ● 8 circuits

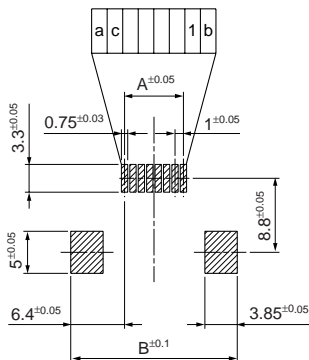
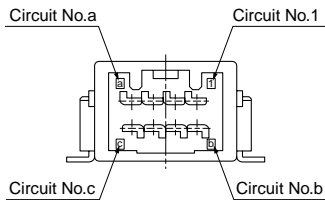


### Side entry type

#### ● 2 circuits

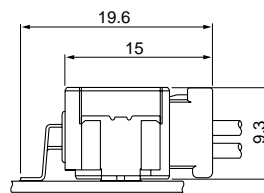


#### ● 8, 12, 16, 20 circuits

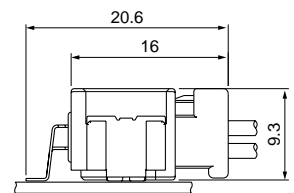


Circuits	A	B
8	7	19.8
12	11	23.8
16	15	27.8
20	19	31.8

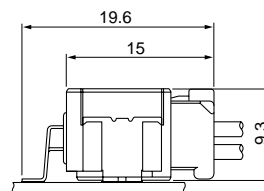
#### ● 8 circuits



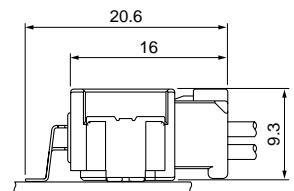
#### ● 12 circuits



#### ● 16 circuits



#### ● 20 circuits



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. 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
SCPT-A021GF-0.5	AP-K2N	MK/SCPT-A021-05	APLMK SCPT-A021-05

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