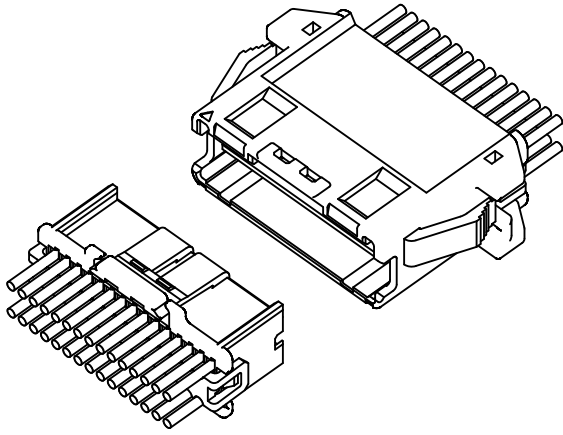


# ZND CONNECTOR

1.5 mm pitch/ Wire-to-wire connector



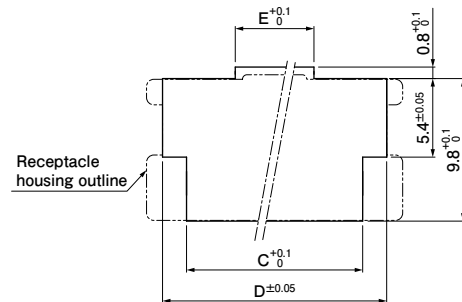
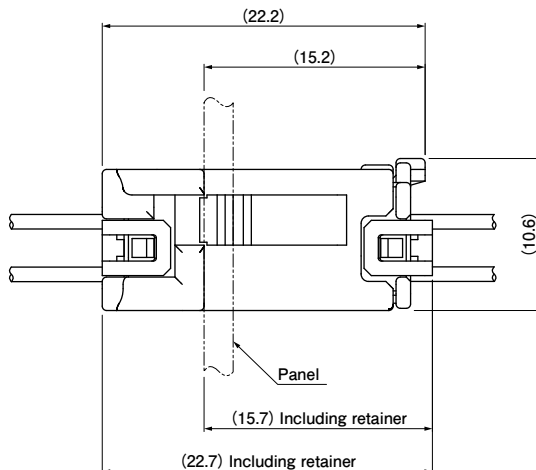
This is the 1.5 mm pitch dual-row type wire-to-wire connector with secure locking device that is correspondent to the high-density equipment design. A good mating feel makes the occurrence of incomplete mating suppressed.

- Strong locking mechanism
- Retainer mountable type
- Panel locking mechanism
- Superior insertion/withdrawal operability (low insertion force type)
- Development of keying is enabled.

## Specifications

- Current rating: 2 A AC/DC (AWG #24)
  - Voltage rating: 100 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: 500 VAC/minute
  - Applicable wire range:
    - Conductor size/ AWG #28 to #24
    - Insulation O.D/ Without using retainer:  $\phi 0.76$  to  $\phi 1.3$  mm
    - With using retainer:  $\phi 1.0$  to  $\phi 1.3$  mm
  - Applicable panel thickness: 0.5 to 2.0 mm
- \* In using the products, refer to "Handling Precaution for Terminals and Connectors" described on our website (Technical documents of Product information page).
- \* RoHS2 compliance
- \* Dimensional unit: mm
- \* Contact JST for details.

## Assembly layout and Panel layout

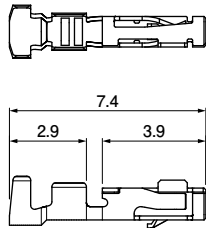


Note: Dimensions C, D, and E: See receptacle housing section.

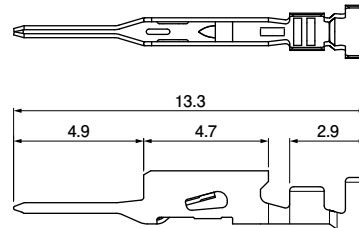
# ZND CONNECTOR

## Contact

### Socket contact



### Pin contact



### Socket contact

Model No.	Applicable wire range		Q'ty/ reel	
	Conductor size	AWG (mm <sup>2</sup> )		Insulation O.D. (mm)
SZND-002T-P0.5	#28 to #24	(0.08 to 0.21)	0.76 to 1.3 <sup>(Note)</sup>	23,000

#### Material and Finish

Copper alloy, tin-plated

#### RoHS2 compliance

Note: When retainer used, the insulation O.D. is  $\phi$ 1.0 to  $\phi$ 1.3 mm.

### Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SZND-002T-P0.5	AP-K2N	MKS-L	APLMK SZND/M002-05

Note: Contact JST for fully automatic crimping applicator.

### Pin contact

Model No.	Applicable wire range		Q'ty/ reel	
	Conductor size	AWG (mm <sup>2</sup> )		Insulation O.D. (mm)
SZNDM-002T-P0.5	#28 to #24	(0.08 to 0.21)	0.76 to 1.3 <sup>(Note)</sup>	14,000

#### Material and Finish

Copper alloy, tin-plated

#### RoHS2 compliance

Note: When retainer used, the insulation O.D. is  $\phi$ 1.0 to  $\phi$ 1.3 mm.

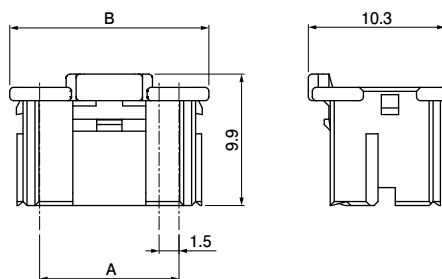
### Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SZNDM-002T-P0.5	AP-K2N	MKS-L	APLMK SZND/M002-05

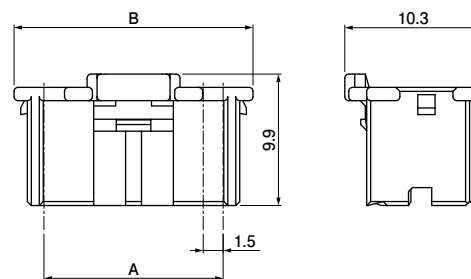
Note: Contact JST for fully automatic crimping applicator.

## Socket housing (for socket contact)

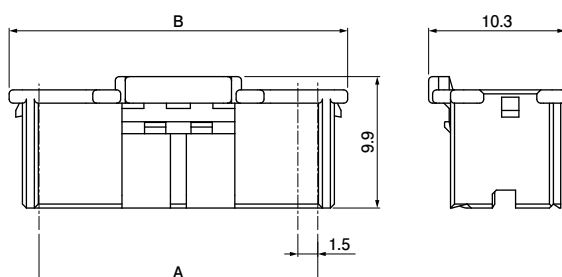
### <16 circuits>



### <24 circuits>



### <32, 40 circuits>



No. of circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
16	ZNDP-16V-A-S	10.5	15.0	1,000
24	ZNDP-24V-A-S	16.5	21.0	1,000
32	ZNDP-32V-A-S	22.5	27.0	1,000
40	ZNDP-40V-A-S	28.5	33.0	700

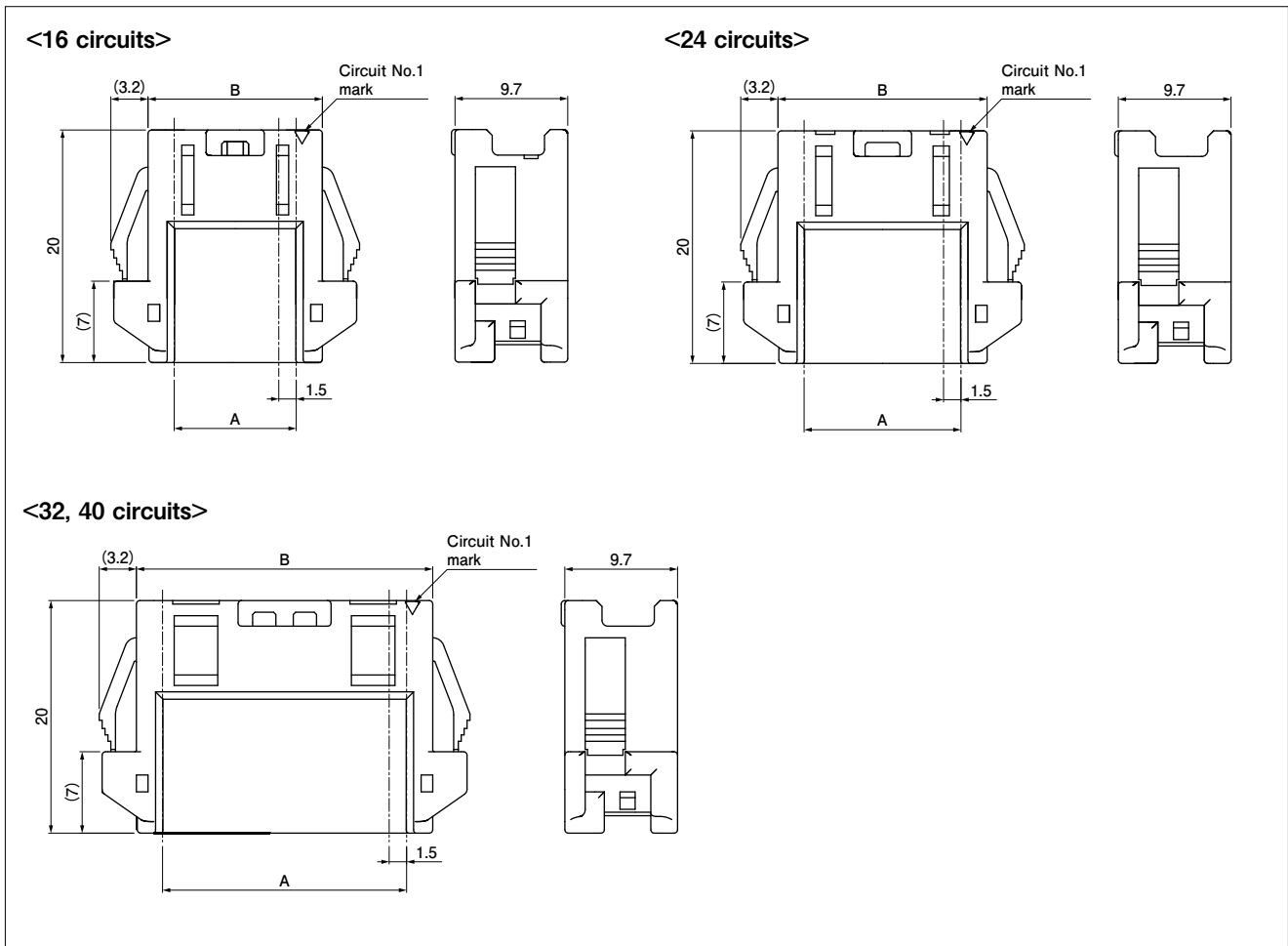
#### Material and Finish

PA 66 (Glass-filled), UL94V-0, natural

#### RoHS2 compliance

# ZND CONNECTOR

## Receptacle housing (for pin contact)



No. of circuits	Model No.	Dimensions (mm)					Q'ty/bag
		A	B	C	D	E	
16	ZNDRR-16V-A-S	10.5	15.0	15.4	18.7	6.0	200
24	ZNDRR-24V-A-S	16.5	21.0	21.4	24.7	6.0	200
32	ZNDRR-32V-A-S	22.5	27.0	27.4	30.7	9.0	200
40	ZNDRR-40V-A-S	28.5	33.0	33.4	36.7	9.0	200

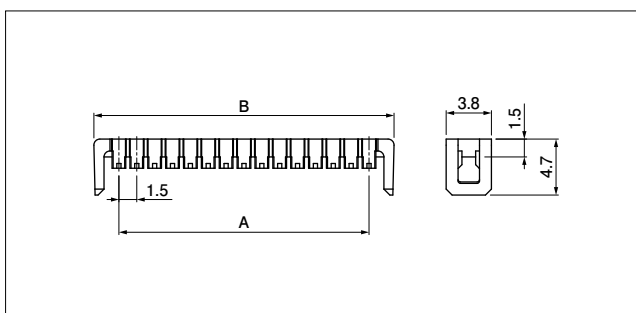
### Material and Finish

PA 66, UL94V-0, natural

### RoHS2 compliance

Note: Dimensions C, D, and E: Panel layout dimensions

## Retainer



No. of circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
16	ZNDS-16V-K	10.5	14.7	2,000
24	ZNDS-24V-K	16.5	20.7	2,000
32	ZNDS-32V-K	22.5	26.7	2,000
40	ZNDS-40V-K	28.5	32.7	2,000

### Material and Finish

PA 66 (Glass-filled), UL94V-0, black

RoHS2 compliance

## Model number allocation

### Pin contact

**S ZND M - 002 T - P 0.5**

Contact form: S··Strip form  
Series name  
Part name: M··Pin contact  
Applicable wire range: 002··AWG #28 to #24  
Surface finish: T··Tin-plated  
Material: P··Copper alloy  
Terminal size

### Socket contact

**S ZND - 002 T - P 0.5**

Contact form: S··Strip form  
Series name  
Applicable wire range: 002··AWG #28 to #24  
Surface finish: T··Tin-plated  
Material: P··Copper alloy  
Terminal size

### Socket housing

**ZND P - 16 V - A - S**

Series name  
Part name: P··Plug  
No. of circuits  
Flammability: V··UL94V-0  
Key pattern: A··Key pattern A  
Color: S··Natural

### Receptacle housing

**ZND RR - 16 V - A - S**

Series name  
Part name: RR··Receptacle  
     (Retainer mountable type)  
No. of circuits  
Flammability: V··UL94V-0  
Key pattern: A··Key pattern A  
Color: S··Natural

### Retainer

**ZND S - 16 V - K**

Series name  
Part name: S··Retainer  
No. of circuits  
Flammability: V··UL94V-0  
Color: K··Black