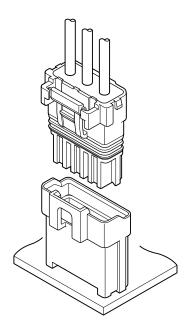


# WPJ CONNECTOR

## 5.0 mm pitch/Disconnectable Crimp style connectors



Compact, Water Resist and Durable.
This connector for electrical connection can be used on both waterproof and non-waterproof conditions, depending on the usage. Just by placing a rubber part will change it into a water resistant connector. Both conditions are using the same header.

- Waterproof performance [Grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529)]
- Control key system
- Contacting part of contact is hardly deformed
- Inner locking system
- Compact design

## Specifications -

- Current rating: 7 A AC, DC (AWG #18)
- Voltage rating: 300 V AC, DC
- Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/ 10 m $\Omega$  max.

After environmental tests/ 20 m $\Omega$  max.

- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: Conductor size/ AWG #22 to #18 Insulation O.D./ 2.32 to 2.83 mm

1.52 to 2.03 mm

Waterproof grade: Grade 7 ingress protection of JIS C 0920

(IPX7 of IEC 60529)

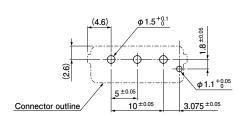
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.
- \* Compliant with RoHS.

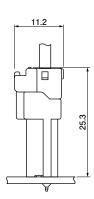
#### Standards –

Recognized E60389

⊕ Certified LR20812

△ File No.R50073100



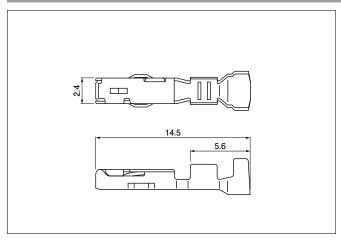


- Note: 1. The above figure is the figure viewed from the connector mounting side.
  - 2. Tolerances are non-cumulative:  $\pm$  0.05 mm for all centers.
  - 3. The dimensions above should serve as a guideline. Contact JST for details.

# **WPJ CONNECTOR**

(Non-waterproof type)

## Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Oh /
	mm <sup>2</sup>	AWG#	Insulation O.D. (mm)	Q'ty/reel
SWPJR-21T-M0.5	0.33 to 0.83	22 to 18	2.32 to 2.83	4,500
SWPJR-21T-M0.5A	0.33 to 0.83	22 to 18	1.52 to 2.03	4,500

#### Material and Finish

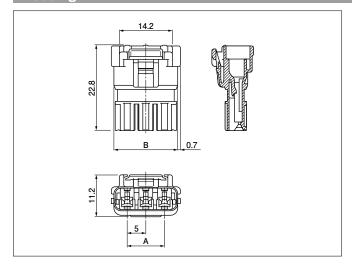
Copper alloy, tin-plated (reflow treatment)

#### RoHS compliance

Contact	Crimping	Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	
SWPJR-21T-M0.5A	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05	
SWPJR-21T-M0.5A	AF-NZIN		MK/SWPJR/T-21-05A	APLMK SWPJR/T21-05A	

Note: Contact JST for fully automatic crimping applicator.

# Housing



### Receptacle housing

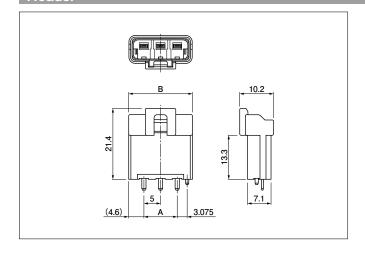
No. of circuits	Model No.	Α	В	Q'ty/box
2	WPJR-02V-1-S	-	12.1	1,000
3	WPJR-03V-1-S	10.0	17.1	1,000

#### Material

Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

## Header



No. of circuits	Model No.	Α	В	Q'ty/bag
2	B02B-WPJSS-1	_	14.2	600
3	B03B-WPJSS-1	10.0	19.2	390

## Material and Finish

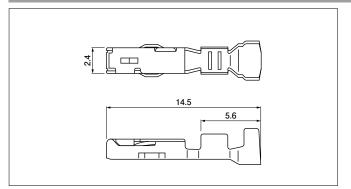
Wafer: Glass-filled PBT, UL94V-0 Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

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

# **WPJ CONNECTOR**

## (Waterproof type)

## Contact



Model No.	Applicable wire		Insulation O.D. (mm)	0'4./	
Model No.	mm <sup>2</sup>	AWG#	insulation O.D. (mm)	Q ty/reer	
SWPJR-21T-M0.5	<b>10.5</b> 0.33 to 0.83 22 to 18 2.32 to 2.83		4,500		

#### Material and Finish

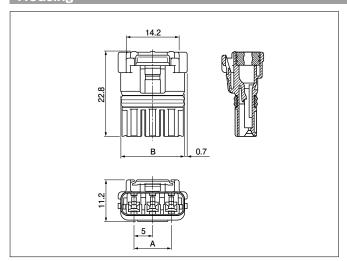
Copper alloy, tin-plated (reflow treatment)

#### RoHS compliance

Comboot	Crimping	Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05	

Note: Contact JST for fully automatic crimping applicator.

# Housing



## Receptacle housing assembly

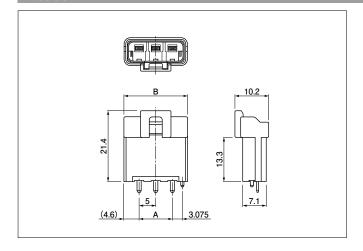
No. of circuits	Model No.	Α	В	Q'ty/box
2	02R-WPJV-1-SMM	-	12.1	720
3	03R-WPJV-1-SMM	10.0	17.1	576

#### Material

Receptacle housing: Glass-filled PBT, UL94V-0, natural (white) Seal ring: Silicon, green Seal rubber plate: Silicon, green

RoHS compliance

# Header



No. of circuits	Model No.	Α	В	Q'ty/bag
2	B02B-WPJSS-1	_	14.2	600
3	B03B-WPJSS-1	10.0	19.2	390

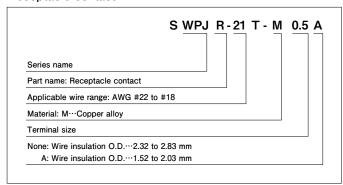
Material and Finish

Wafer: Glass-filled PBT, UL94V-0 Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

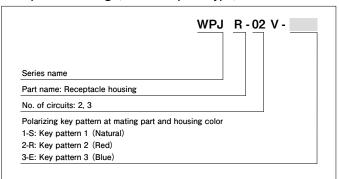
RoHS compliance This product displays (LF)(SN) on a label.

## Model number allocation

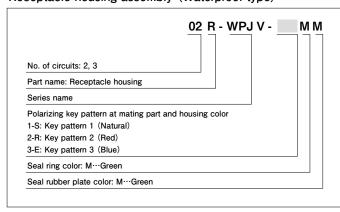
#### Receptacle contact



### Receptacle housing (Non-waterproof type)



### Receptacle housing assembly (Waterproof type)



#### Header

