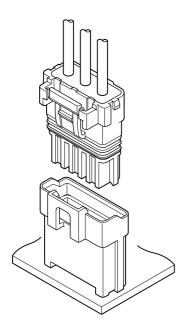


VPJ CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



Compact, Water Resist and Durable. This connector for electrical connection can be used on both waterproof and nonwaterproof 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 Ω max.

After environmental tests/ 20 m Ω max.

• Insulation resistance: 1,000 M Ω 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.

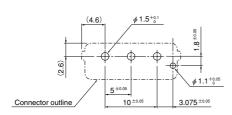
Standards -

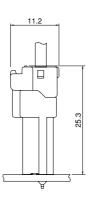
Recognized E60389

Certified LR20812

△ R50073100

PC board layout and Assembly layout





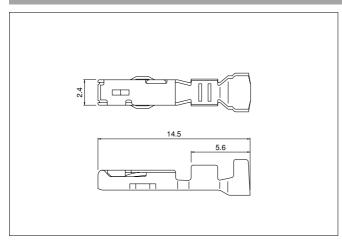
Note: 1. The above figure is the figure viewed from the connector mounting side.

- 2. Tolerances are non-cumulative: ±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		Inculation O.D. (mm)	Olt. // I	
	mm ²	AWG#	Insulation O.D. (mm)	Q'ty/reel	
SWPJR-21T-M0.5 0.33~0.83		22~18	2.32~2.83	4,500	
SWPJR-21T-M0.5A	0.33~0.83 22~18		1.52~2.03	4,500	

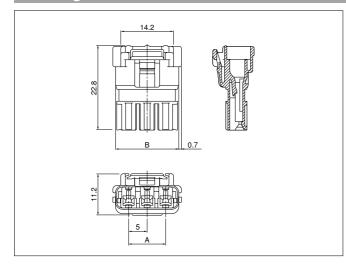
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping	Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05	
		_	_	_	
SWPJR-21T-M0.5A		MKS-L	MK/SWPJR/T-21-05A	APLMK SWPJR/T21-05A	
3WF0H-211-W0.5A		_	_	_	

Housing



Receptacle housing

Circuits	Model No.	Α	В	Q'ty/bag
2	WPJR-02V-1-S	_	12.1	1,000
3	WPJR-03V-1-S	10.0	17.1	1,000

Material

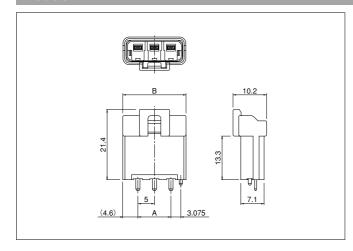
Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

<For reference> Polarizing key pattern Key pattern 1 (Color: Natural): WPJR-02V-1-S WPJR-02V-2-R Key pattern 2 (Color: Red): Key pattern 3 (Color: Blue): WPJR-02V-3-E

For availability, delivery and minimum order quantity, contact JST.

Header



Circuits	Model No.	Α	В	Q'ty/box
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.

<For reference> Polarizing key pattern

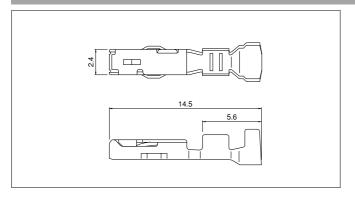
Key pattern 1 (Color: Natural): B02B-WPJSS-1 Key pattern 2 (Color: Red): B02B-WPJRS-2 B02B-WPJES-3 Key pattern 3 (Color: Blue):

For availability, delivery and minimum order quantity, contact JST.

WPJ CONNECTOR

(Waterproof type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Olt. //1	
	mm ²	AWG#	Insulation O.D. (mm)	Q ty/reei	
SWPJR-21T-M0.5	0.33~0.83	22~18	2.32~2.83	4,500	

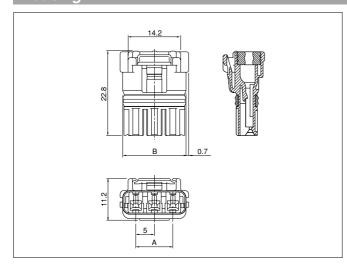
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping	Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05	
3WF3H-211-W0.3	AF-NZIN	_	_	_	

Housing



Receptacle housing assembly

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

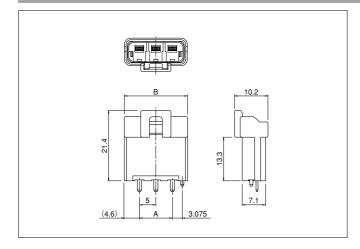
RoHS compliance

<For reference> Polarizing key pattern

Key pattern 1 (Color: Natural): 02R-WPJV-1-SMM 02R-WPJV-2-RMM Key pattern 2 (Color: Red): Key pattern 3 (Color: Blue): 02R-WPJV-3-EMM

For availability, delivery and minimum order quantity, contact JST.

Header



ĺ	Circuits	Model No.	Α	В	Q'ty/box
	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.

<For reference> Polarizing key pattern

Key pattern No.1(Color: Natural): B02B-WPJSS-1 B02B-WPJRS-2 Key pattern No.2(Color: Red): Key pattern No.3(Color: Blue): B02B-WPJES-3

For availability, delivery and minimum order quantity, contact JST.