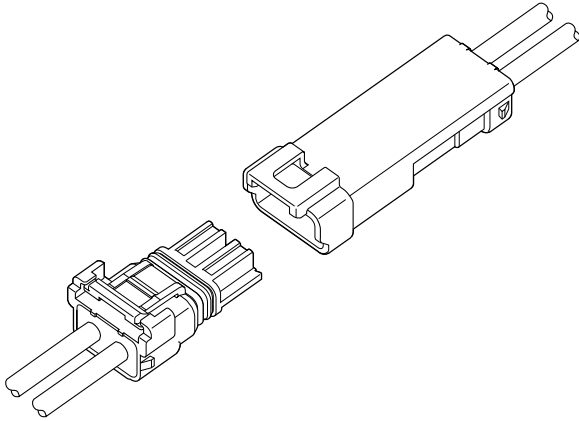




# WPJ CONNECTOR

**5.0mm pitch/Disconnectable Crimp style Wire-to-wire 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.**

- **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**

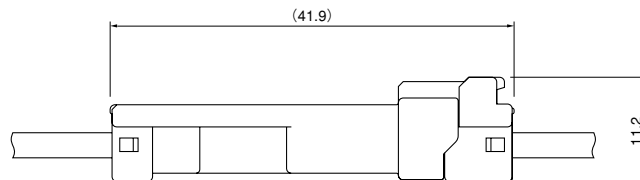
## Specifications

- 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 mΩ max.  
 After environmental tests/ 20 mΩ 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

## Assembly layout

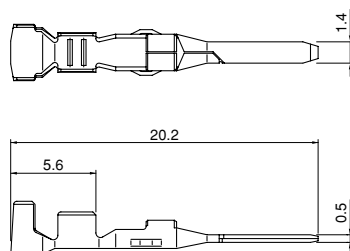


# WPJ CONNECTOR

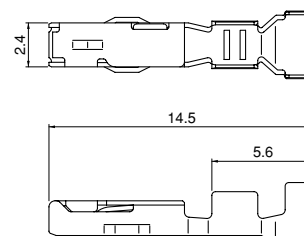
(Non-waterproof type)

## Contact

Tab contact



Receptacle contact



| Model No.       |                    | Applicable wire |       | Insulation O.D. (mm) | Q'ty/reel   |                    |
|-----------------|--------------------|-----------------|-------|----------------------|-------------|--------------------|
| Tab contact     | Receptacle contact | mm <sup>2</sup> | AWG # |                      | Tab contact | Receptacle contact |
| SWPJT-21T-P0.5  | SWPJR-21T-M0.5     | 0.33~0.83       | 22~18 | 2.32~2.83            | 6,000       | 4,500              |
| SWPJT-21T-P0.5A | SWPJR-21T-M0.5A    |                 |       | 1.52~2.03            | 9,000       | 4,500              |

### Material and Finish

Copper alloy, tin-plated (reflow treatment)

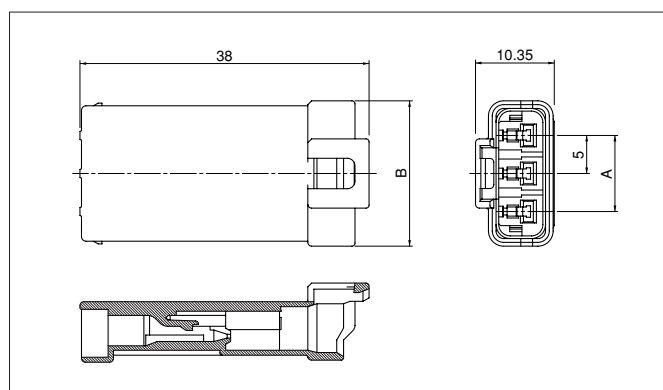
### RoHS compliance

### Non-waterproof type

| Contact        | Crimping machine | Applicator       |                  |                            |
|----------------|------------------|------------------|------------------|----------------------------|
|                |                  | Crimp applicator | Dies             | Crimp applicator with dies |
| SWPJT-21T-P0.5 | AP-K2N           | MKS-L            | MK/SWPJR/T-21-05 | APLMK SWPJR/T21-05         |
|                |                  | —                | —                | —                          |
| SWPJR-21T-M0.5 | AP-K2N           | MKS-L            | MK/SWPJR/T-21-05 | APLMK SWPJR/T21-05         |
|                |                  | —                | —                | —                          |

| Contact         | Crimping machine | Applicator       |                   |                            |
|-----------------|------------------|------------------|-------------------|----------------------------|
|                 |                  | Crimp applicator | Dies              | Crimp applicator with dies |
| SWPJT-21T-P0.5A | AP-K2N           | MKS-L            | MK/SWPJR/T-21-05A | APLMK SWPJR/T21-05A        |
|                 |                  | —                | —                 | —                          |
| SWPJR-21T-M0.5A | AP-K2N           | MKS-L            | MK/SWPJR/T-21-05A | APLMK SWPJR/T21-05A        |
|                 |                  | —                | —                 | —                          |

## Tab housing (for tab contact)



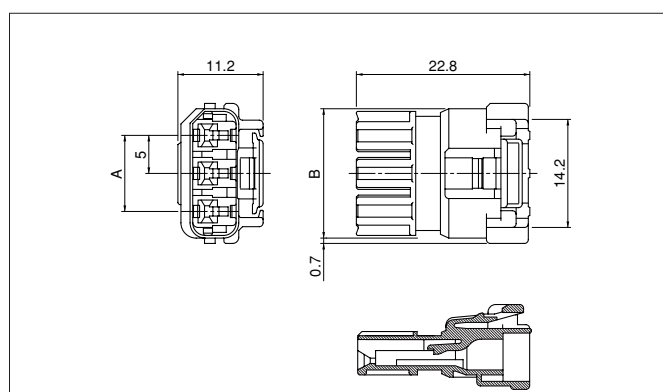
| Circuits | Model No.    | Dimensions (mm) |      | Q'ty/bag |
|----------|--------------|-----------------|------|----------|
|          |              | A               | B    |          |
| 2        | WPJT-02V-1-S | —               | 14.2 | 500      |
| 3        | WPJT-03V-1-S | 10              | 19.2 | 500      |

### Material

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

### RoHS compliance

## Receptacle housing (for receptacle contact)



| Circuits | Model No.    | Dimensions (mm) |      | Q'ty/bag |
|----------|--------------|-----------------|------|----------|
|          |              | A               | B    |          |
| 2        | WPJR-02V-1-S | —               | 12.1 | 1,000    |
| 3        | WPJR-03V-1-S | 10              | 17.1 | 1,000    |

### Material

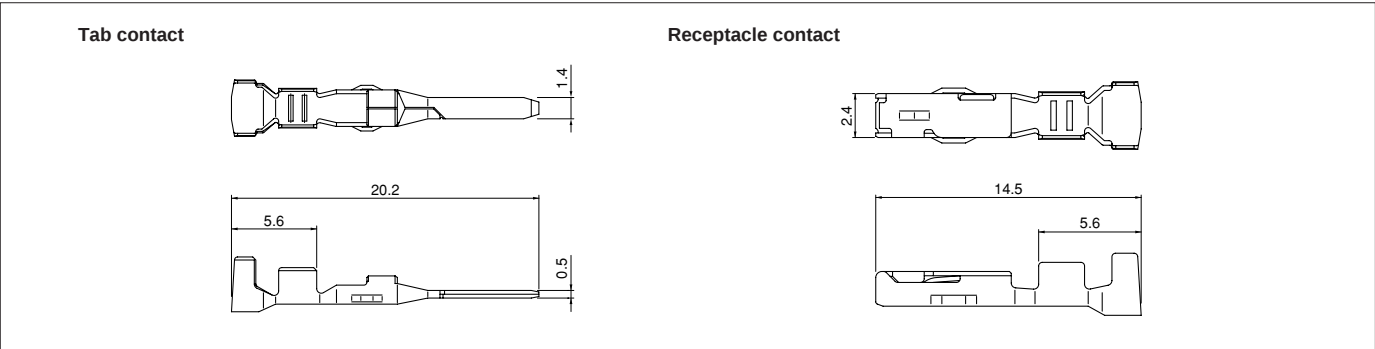
Glass-filled PBT, UL94V-0, natural (white)

### RoHS compliance

# WPJ CONNECTOR

(Waterproof type)

## Contact



| Model No.      |                    | Applicable wire |       | Insulation O.D. (mm) | Q'ty/reel   |                    |
|----------------|--------------------|-----------------|-------|----------------------|-------------|--------------------|
| Tab contact    | Receptacle contact | mm²             | AWG # |                      | Tab contact | Receptacle contact |
| SWPJT-21T-P0.5 | SWPJR-21T-M0.5     | 0.33~0.83       | 22~18 | 2.32~2.83            | 6,000       | 4,500              |

Material and Finish

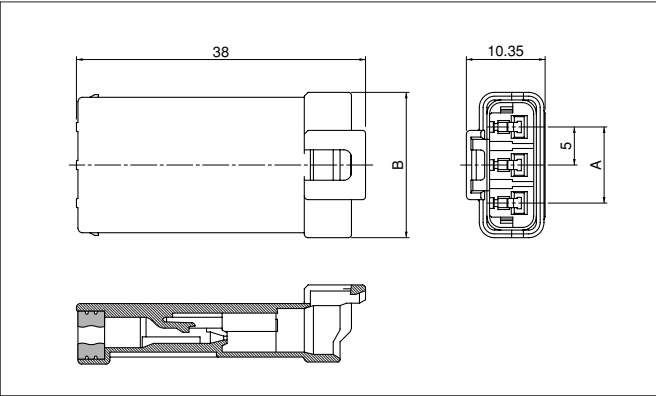
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

## Waterproof type

| Contact        | Crimping machine | Applicator       |                  |                            |
|----------------|------------------|------------------|------------------|----------------------------|
|                |                  | Crimp applicator | Dies             | Crimp applicator with dies |
| SWPJT-21T-P0.5 | AP-K2N           | MKS-L            | MK/SWPJR/T-21-05 | APLMK SWPJR/T21-05         |
|                |                  | —                | —                | —                          |
| SWPJR-21T-M0.5 | AP-K2N           | MKS-L            | MK/SWPJR/T-21-05 | APLMK SWPJR/T21-05         |
|                |                  | —                | —                | —                          |

## Tab housing assembly (for tab contact)



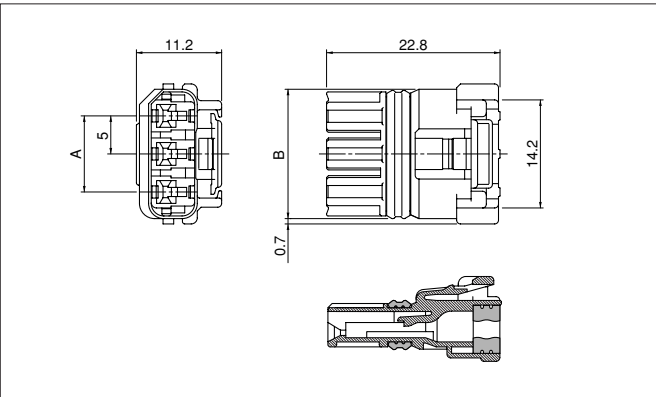
| Circuits | Model No.     | Dimensions (mm) |      | Q ty/bag |
|----------|---------------|-----------------|------|----------|
|          |               | A               | B    |          |
| 2        | 02T-WPJV-1-SM | —               | 14.2 | 675      |
| 3        | 03T-WPJV-1-SM | 10              | 19.2 | 495      |

Material

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

RoHS compliance

## Receptacle housing assembly (for receptacle contact)



| Circuits | Model No.      | Dimensions (mm) |      | Q ty/bag |
|----------|----------------|-----------------|------|----------|
|          |                | A               | B    |          |
| 2        | 02R-WPJV-1-SMM | —               | 12.1 | 720      |
| 3        | 03R-WPJV-1-SMM | 10              | 17.1 | 576      |

Material

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

RoHS compliance