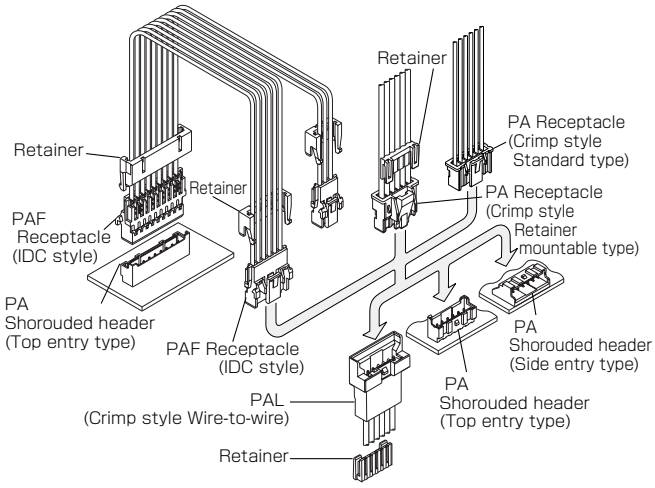


# PA FAMILY SERIES/PA•PAF•PAL CONNECTOR

## *2.0mm pitch/Wire-to-board (Crimp style/IDC) / Wire-to-wire (Crimp style/IDC)*




***Based upon wire-to-board crimp style PA connectors, the PA series family of connector have been expanded to meet the requirement of complex wire harness of 2.0mm pitch connectors with secure locking mechanism thanks to the additional line up of wire-to-board IDC style PAF connectors and wire-to-wire crimp style PAL connectors.***

- ***Secure locking device***
- ***Interchangeable between crimp and IDC socket***
- ***Secondary retainers***
- ***Harness variation***

***PA connector (Standard type, Retainer mountable type)***

- ***Highly reliable contact***
- ***Insertion guide mechanism***
- ***Flanged press pin***

***PAF connector***

- ***The industry's first secure lock ID connectors***
- ***Metallic strain relief***
- ***Retainer with four locking points***

***PAL connector***

- ***The industry's first wire to wire 2.0mm pitch retainer mountable type connector.***
- ***Either with or without panel lock can be selected according to application.***

## *Standards*

Recognized E60389

Certified LR20812

## *Specifications*

### PA Connector (Standard type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
  After environmental testing/ 20m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm

### PA Connector (Retainer mountable type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
  After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22

### PAF Connector

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
  After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1061(Contact JST for details regarding other UL wires.)
  AWG #26
  Conductor/ 7 strands, tin-coated annealed copper
  Insulation O.D./ 0.9 to 1.0mm

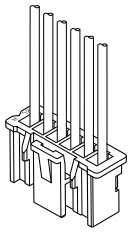
### PAL Connector

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
  After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable panel thickness : 0.5 to 2.0mm

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

## List of combinations

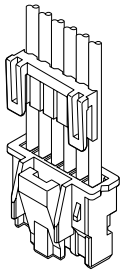
**Crimp style**
**Standard type**



Contact
SPHD-001T-P0.5
SPHD-002T-P0.5

Housing
PAP-( )V-S

**Crimp style**
**Retainer mountable type**

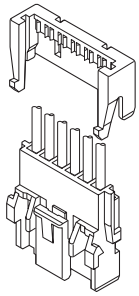


Contact
SPA-001T-P0.5

Housing
PARP-( )V

Retainer
PMS-( )V-S

**Insulation displacement type**

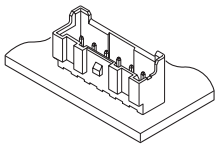


Receptacle
( )PAF-6S

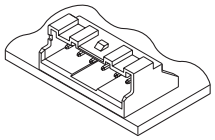
Retainer
PAFS-( )V-S

Shrouded header
B( )B-PASK
B( )B-PASK-1
S( )B-PASK-2

Top entry type

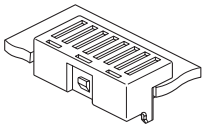


Side entry type



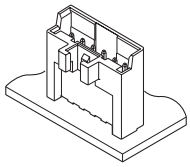
Shrouded header
BE( )B-PASK

**Bottom type**



Shrouded header
BH( )B-PASK
BH( )B-PASK-1

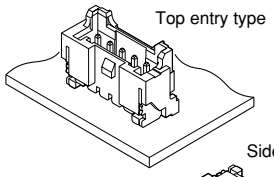
**High box type**



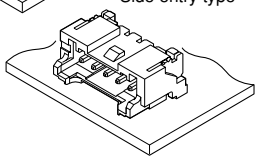
Shrouded header
BM( )B-PASS
BM( )B-PASS-1
SM( )B-PASS
SM( )B-PASS-1

**SMT type**

Top entry type



Side entry type

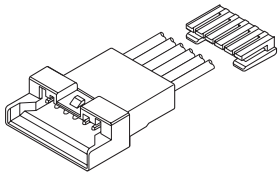


Contact
SPAL-001T-P0.5
SPAL-002T-P0.5

Receptacle housing
PALR-( )V(F)

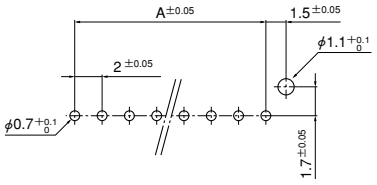
Retainer
PMS-( )V-S

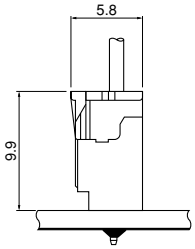
**Wire to wire Connectors**



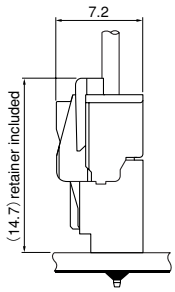
## Through-hole type

### Top entry type

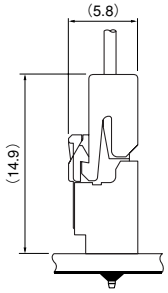



PA Receptacle
(Standard type)
+
PA Header

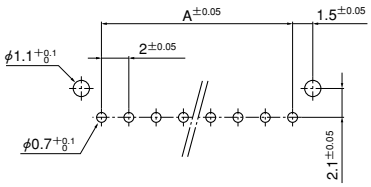


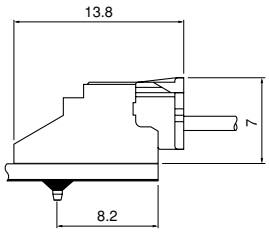

PA Receptacle
(Retainer mountable type)
+
PA Header



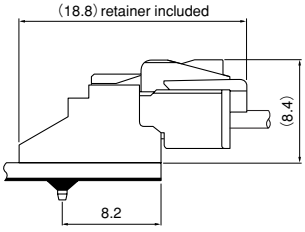

PAF Receptacle
+
PA Header

### Side entry type

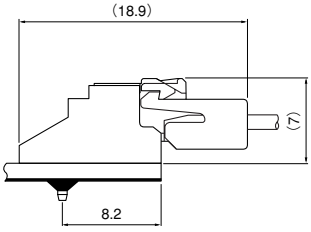



PA Receptacle
(Standard type)
+
PA side entry type header

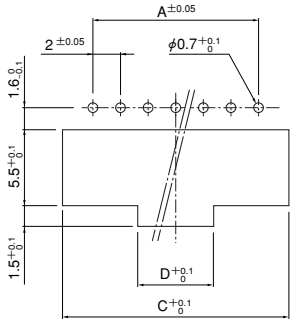



PA Receptacle
(Retainer mountable type)
+
PA side entry type header

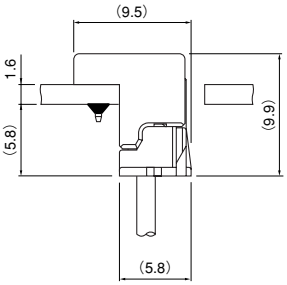



PAF Receptacle
+
PA side entry type header

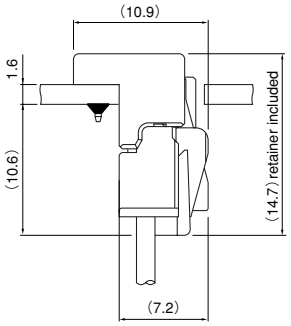
### Bottom type



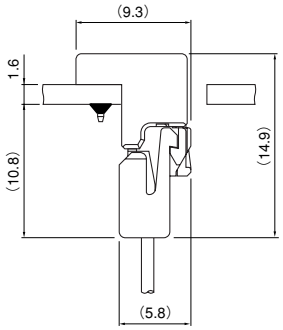

Note: C and D dimensions; Refer to the header bottom type.




PA Receptacle
(Standard type)
+
PA bottom type header

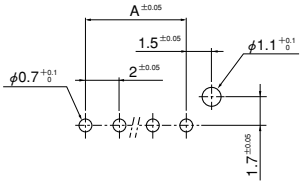


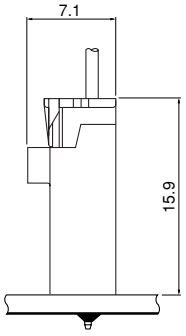

PA Receptacle
(Retainer mountable type)
+
PA bottom type header



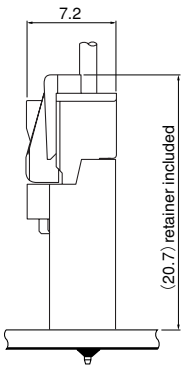

PAF Receptacle
+
PA bottom type header

### High box type

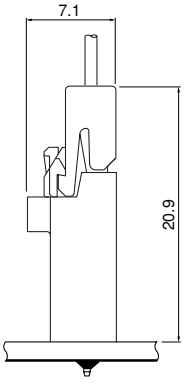



PA Receptacle
(Standard type)
+
PA high box type header




PA Receptacle
(Retainer mountable type)
+
PA high box type header

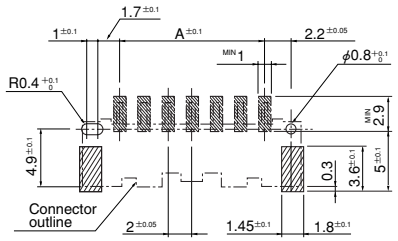


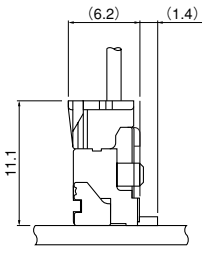

PAF Receptacle
+
PA high box type header

*Note: 1. The above figure is the figure viewed from the connector mounting side.*
*2. Tolerances are non-cumulative: ±0.05mm for all centers.*
*3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.*

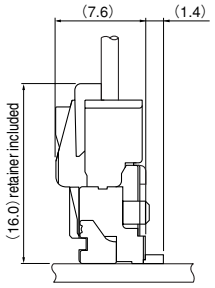
## SMT type

### Top entry type

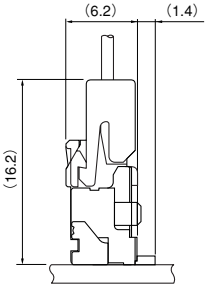



PA Receptacle
(Standard type)
+
PA Header

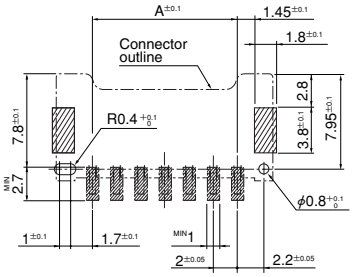


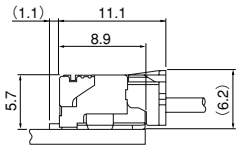

PA Receptacle
(Retainer mountable type)
+
PA Header



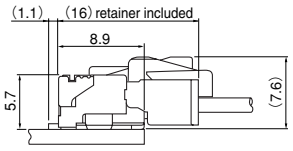

PAF Receptacle
+
PA Header

### Side entry type

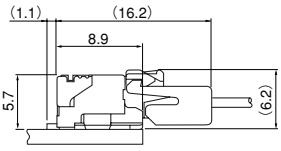



PA Receptacle
(Standard type)
+
PA side entry type header



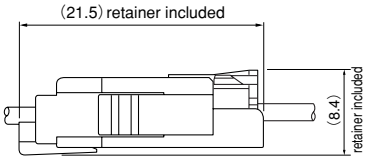

PA Receptacle
(Retainer mountable type)
+
PA side entry type header



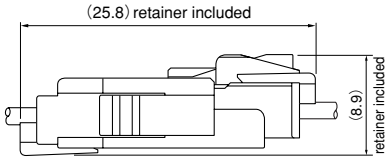

PAF Receptacle
+
PA side entry type header

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

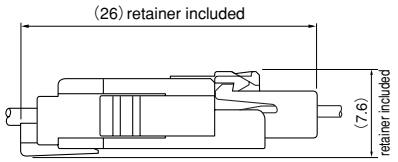
### Wire-to-wire




PA Receptacle
(Standard type)
+
PAL Receptacle

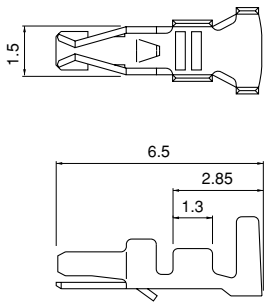



PA Receptacle
(Retainer mountable type)
+
PAL Receptacle




PAF Receptacle
+
PAL Receptacle

## Contact




| Model No. | Applicable wire | | Insulation O.D. (mm) | Q'ty / reel |
|---|---|---|---|---|
| | mm² | AWG # | | |
| **SPHD-001T-P0.5** | 0.13～0.33 | 26～22 | 1.0～1.5 | 8,000 |
| **SPHD-002T-P0.5** | 0.08～0.21 | 28～24 | 0.9～1.5 | 8,000 |

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

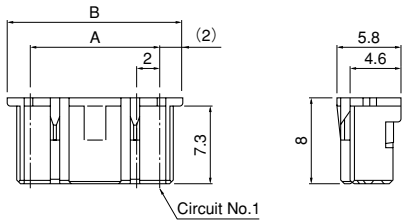
***RoHS compliance***

| Contact | Crimping machine | Applicator | | |
|---|---|---|---|---|
| | | Crimp applicator | Dies | Crimp applicator with dies |
| **SPHD-002T-P0.5** | AP-K2N | MKS-L-10 | MK/SPHD-002-05 | APLMK SPHD002-05 |
| | | *MKS-SC-10 | SC/SPHD-002-05 | APLSC SPHD002-05 |
| **SPHD-001T-P0.5** | | MKS-L-10 | MK/SPHD-001-05 | APLMK SPHD001-05 |
| | | *MKS-SC-10 | SC/SPHD-001-05 | APLSC SPHD001-05 |

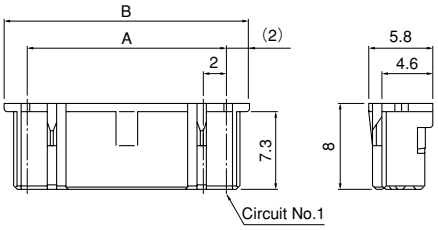
Note: *Strip-crimp applicator

## Housing

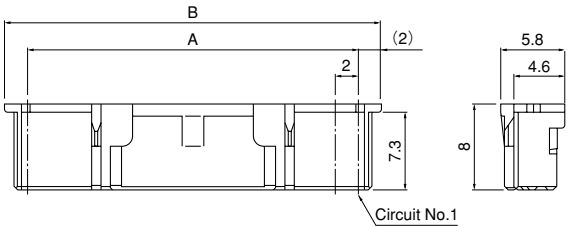
**(2 to 9 circuits)**




**(10 to 15 circuits)**




**(16 circuits)**




| Circuits | Model No. | Dimensions (mm) | | Q'ty / bag |
|---|---|---|---|---|
| | | A | B | |
| 2 | **PAP-02V-S** | 2.0 | 6.0 | 1,000 |
| 3 | **PAP-03V-S** | 4.0 | 8.0 | 1,000 |
| 4 | **PAP-04V-S** | 6.0 | 10.0 | 1,000 |
| 5 | **PAP-05V-S** | 8.0 | 12.0 | 1,000 |
| 6 | **PAP-06V-S** | 10.0 | 14.0 | 1,000 |
| 7 | **PAP-07V-S** | 12.0 | 16.0 | 1,000 |
| 8 | **PAP-08V-S** | 14.0 | 18.0 | 1,000 |
| 9 | **PAP-09V-S** | 16.0 | 20.0 | 1,000 |
| 10 | **PAP-10V-S** | 18.0 | 22.0 | 1,000 |
| 11 | **PAP-11V-S** | 20.0 | 24.0 | 1,000 |
| 12 | **PAP-12V-S** | 22.0 | 26.0 | 1,000 |
| 13 | **PAP-13V-S** | 24.0 | 28.0 | 1,000 |
| 14 | **PAP-14V-S** | 26.0 | 30.0 | 1,000 |
| 15 | **PAP-15V-S** | 28.0 | 32.0 | 1,000 |
| 16 | **PAP-16V-S** | 30.0 | 34.0 | 1,000 |

Material

PA 66, UL94V-0, natural (white)

***RoHS compliance***

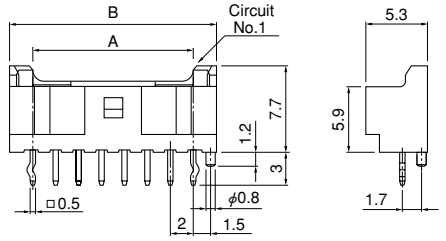
*<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.*

*ex.* **PAP-02V-S**

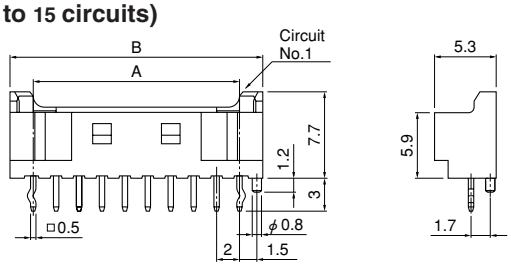
*S…natural (white)*
*K…black R…red E…blue M…green O…orange N…brown*
*P…purple PK…pink Y…yellow L…lemon yellow FY…vivid yellow*
*LE…light blue H…gray TR…tomato red*

## Through-hole type shrouded header

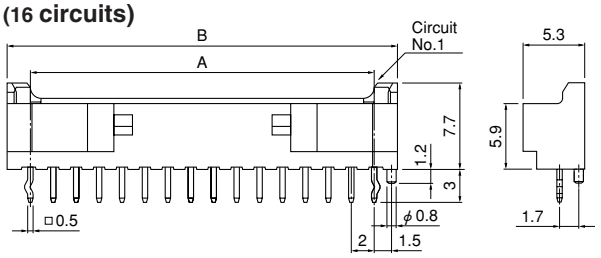
### Top entry type
(2 to 9 circuits)



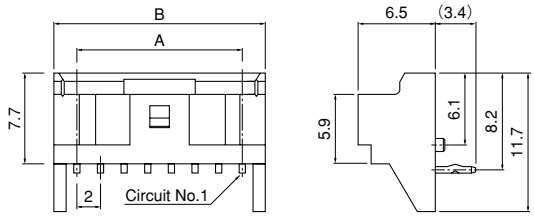

(10 to 15 circuits)



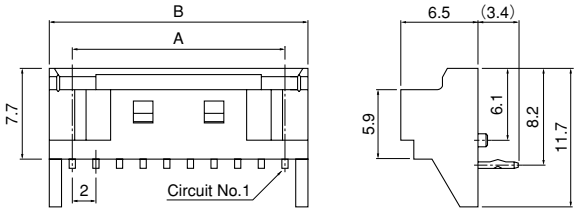

(16 circuits)



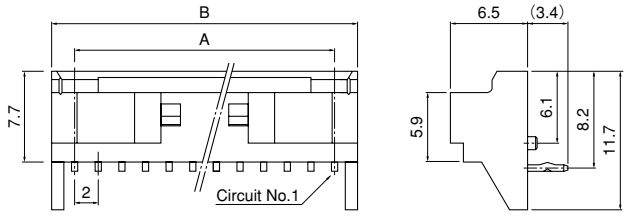

### Side entry type
(2 to 9 circuits)




(10 to 15 circuits)




(16 circuits)




### Top entry type

| Circuits | Model No. | | Dimensions (mm) | | Q'ty / box |
|---|---|---|---|---|---|
| | Without a boss | With a boss | A | B | |
| 2 (Note1) | **B02B-PAFYK-A** | **B02B-PAFYK-1A** | 2.0 | 6.0 | 1,000 |
| 2 | **B02B-PASK** | **B02B-PASK-1** | 2.0 | 6.0 | 1,000 |
| 3 | **B03B-PASK** | **B03B-PASK-1** | 4.0 | 8.0 | 1,000 |
| 4 | **B04B-PASK** | **B04B-PASK-1** | 6.0 | 10.0 | 1,000 |
| 5 | **B05B-PASK** | **B05B-PASK-1** | 8.0 | 12.0 | 500 |
| 6 | **B06B-PASK** | **B06B-PASK-1** | 10.0 | 14.0 | 500 |
| 7 | **B07B-PASK** | **B07B-PASK-1** | 12.0 | 16.0 | 500 |
| 8 | **B08B-PASK** | **B08B-PASK-1** | 14.0 | 18.0 | 500 |
| 9 | **B09B-PASK** | **B09B-PASK-1** | 16.0 | 20.0 | 500 |
| 10 | **B10B-PASK** | **B10B-PASK-1** | 18.0 | 22.0 | 500 |
| 11 | **B11B-PASK** | **B11B-PASK-1** | 20.0 | 24.0 | 250 |
| 12 | **B12B-PASK** | **B12B-PASK-1** | 22.0 | 26.0 | 250 |
| 13 | **B13B-PASK** | **B13B-PASK-1** | 24.0 | 28.0 | 250 |
| 14 | **B14B-PASK** | **B14B-PASK-1** | 26.0 | 30.0 | 250 |
| 15 | **B15B-PASK** | **B15B-PASK-1** | 28.0 | 32.0 | 250 |
| 16 | **B16B-PASK** | **B16B-PASK-1** | 30.0 | 34.0 | 250 |

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)
(Note1) PA 66, UL94V-0, vivid yellow

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

*<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.*

*ex.* **B02B-PASK**

*S…natural (white)*
*K…black R…red E…blue M…green O…orange N…brown*
*P…purple PK…pink Y…yellow L…lemon yellow FY…vivid yellow*
*LE…light blue H…gray TR…tomato red*

### Side entry type

| Circuits | Model No. | Dimensions (mm) | | Q'ty / box |
|---|---|---|---|---|
| | | A | B | |
| 2 | **S02B-PASK-2** | 2.0 | 6.0 | 1,000 |
| 3 | **S03B-PASK-2** | 4.0 | 8.0 | 1,000 |
| 4 | **S04B-PASK-2** | 6.0 | 10.0 | 500 |
| 5 | **S05B-PASK-2** | 8.0 | 12.0 | 500 |
| 6 | **S06B-PASK-2** | 10.0 | 14.0 | 500 |
| 7 | **S07B-PASK-2** | 12.0 | 16.0 | 250 |
| 8 | **S08B-PASK-2** | 14.0 | 18.0 | 250 |
| 9 | **S09B-PASK-2** | 16.0 | 20.0 | 250 |
| 10 | **S10B-PASK-2** | 18.0 | 22.0 | 250 |
| 11 | **S11B-PASK-2** | 20.0 | 24.0 | 250 |
| 12 | **S12B-PASK-2** | 22.0 | 26.0 | 250 |
| 13 | **S13B-PASK-2** | 24.0 | 28.0 | 200 |
| 14 | **S14B-PASK-2** | 26.0 | 30.0 | 200 |
| 15 | **S15B-PASK-2** | 28.0 | 32.0 | 200 |
| 16 | **S16B-PASK-2** | 30.0 | 34.0 | 200 |

Material and Finish

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

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

*<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.*

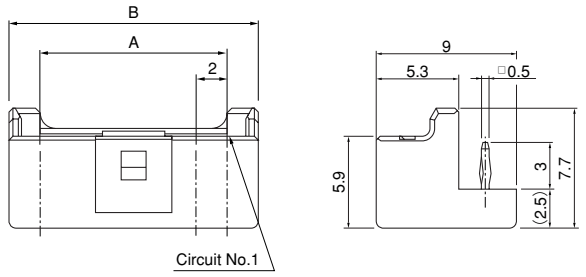
*ex.* **S03B-PASK-2**

*S…natural (white)*
*K…black R…red E…blue M…green O…orange N…brown*
*P…purple PK…pink Y…yellow L…lemon yellow LE…light blue*
*H…gray TR…tomato red*

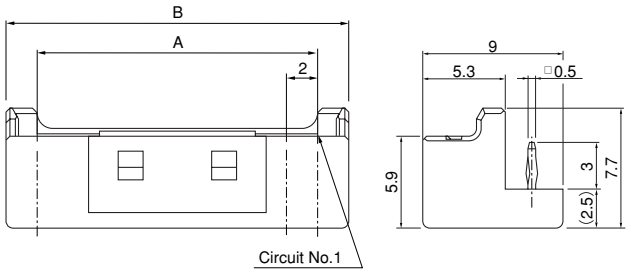
## *Through-hole type shrouded header*

### Bottom type

**(5, 8 circuits)**




**(11, 12 circuits)**



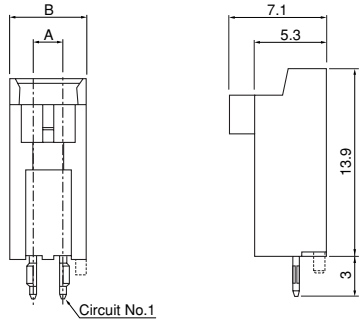

| Circuits | Model No. | Dimensions(mm) | | | | Q'ty / bag |
|---|---|---|---|---|---|---|
| | | A | B | C | D | |
| 5 | **BE05B-PASK** | 8.0 | 12.0 | 12.4 | 5.5 | 300 |
| 8 | **BE08B-PASK** | 14.0 | 18.0 | 18.4 | 5.5 | 200 |
| 11 | **BE11B-PASK** | 20.0 | 24.0 | 24.4 | 12.0 | 150 |
| 12 | **BE12B-PASK** | 22.0 | 26.0 | 26.4 | 12.0 | 150 |

| Material and Finish |
|---|
| Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)<br>Wafer: Glass-filled PBT, UL94V-0, natural |

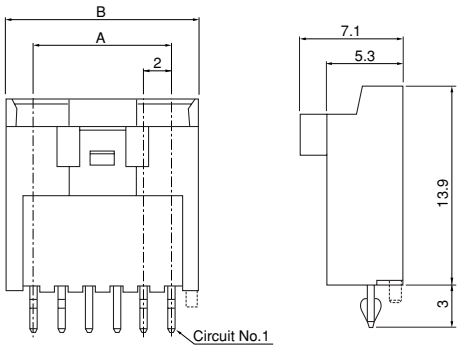
***RoHS compliance*** *This product displays (LF)(SN) on a label.*
*Note: C and D dimensions; Refer to the PCB layout bottom type (P3).*

## *Shrouded header <High box type>*

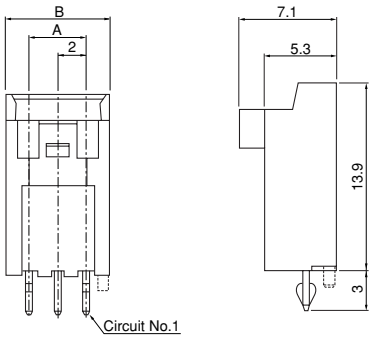
**(2 circuits)**



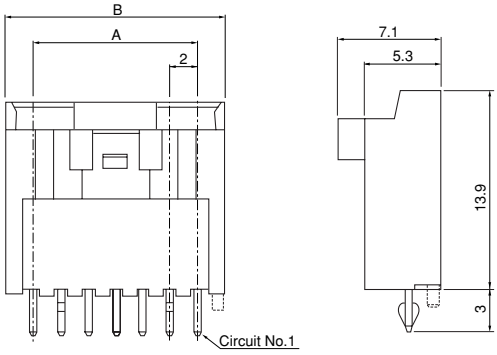

**(5, 6 circuits)**



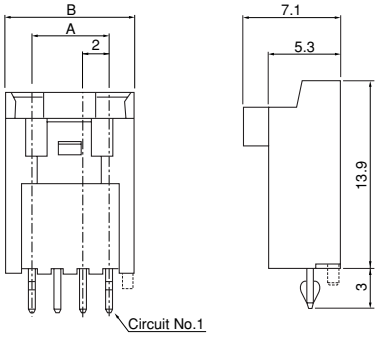

**(3 circuits)**



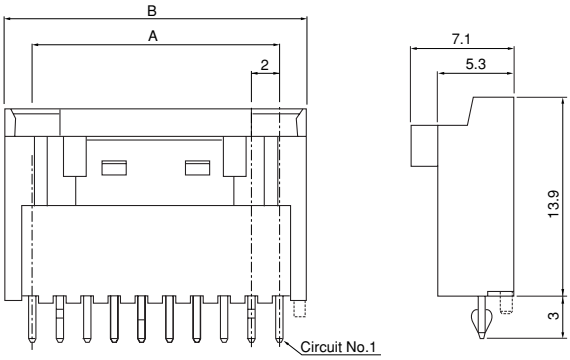

**(7 to 9 circuits)**




**(4 circuits)**




**(10 to 12, 15 circuits)**




| Circuits | Model No. | | Dimensions(mm) | | Q'ty / box |
|---|---|---|---|---|---|
| | Without a boss | With a boss | A | B | |
| 2 | **BH02B-PASK** | **BH02B-PASK-1** | 2.0 | 6.0 | 900 |
| 3 | **BH03B-PASK** | **BH03B-PASK-1** | 4.0 | 8.0 | 675 |
| 4 | **BH04B-PASK** | **BH04B-PASK-1** | 6.0 | 10.0 | 525 |
| 5 | **BH05B-PASK** | **BH05B-PASK-1** | 8.0 | 12.0 | 450 |
| 6 | **BH06B-PASK** | **BH06B-PASK-1** | 10.0 | 14.0 | 375 |
| 7 | **BH07B-PASK** | **BH07B-PASK-1** | 12.0 | 16.0 | 325 |
| 8 | **BH08B-PASK** | **BH08B-PASK-1** | 14.0 | 18.0 | 300 |
| 9 | **BH09B-PASK** | **BH09B-PASK-1** | 16.0 | 20.0 | 250 |
| 10 | **BH10B-PASK** | **BH10B-PASK-1** | 18.0 | 22.0 | 225 |
| 11 | **BH11B-PASK** | **BH11B-PASK-1** | 20.0 | 24.0 | 225 |
| 12 | **BH12B-PASK** | **BH12B-PASK-1** | 22.0 | 26.0 | 200 |
| 15 | **BH15B-PASK** | **BH15B-PASK-1** | 28.0 | 32.0 | 150 |

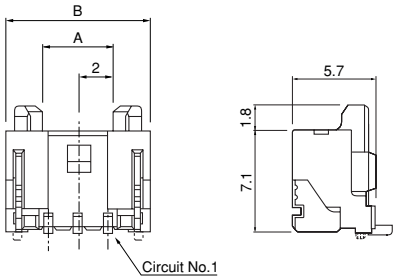
| Material and Finish |
|---|
| Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)<br>Wafer: Glass-filled PBT, UL94V-0, natural (white) |

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

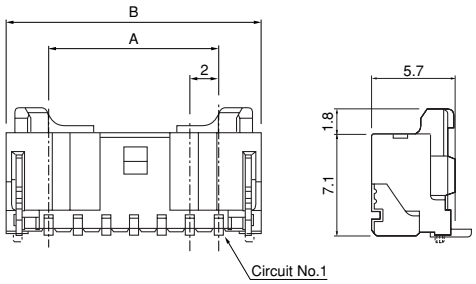
## SMT type shrouded header

### Top entry type

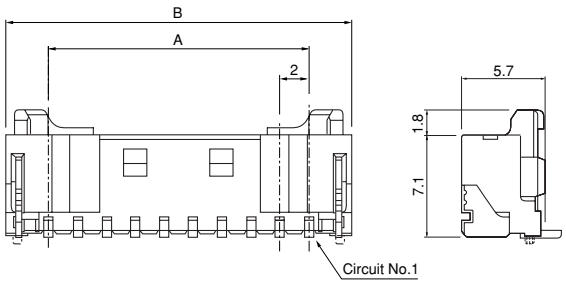
**(2 to 3 circuits)**




**(4 to 9 circuits)**

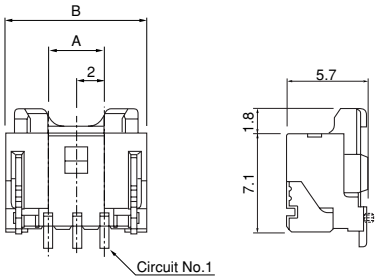



**(10 to 13, 15 circuits)**

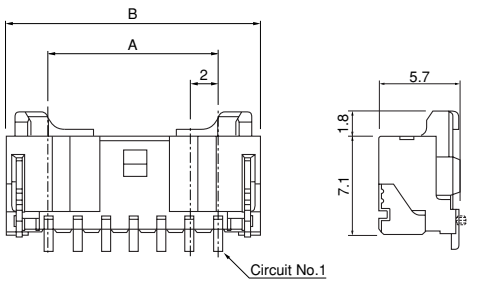



### Side entry type

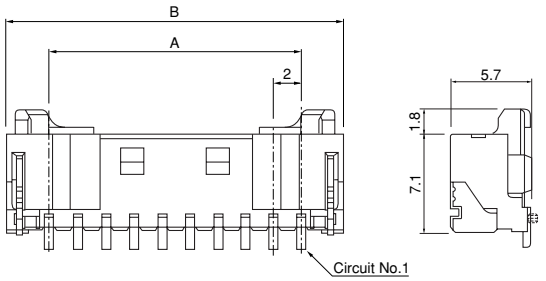
**(2 to 3 circuits)**




**(4 to 9 circuits)**




**(10 to 13, 15 circuits)**




**Top entry type**

| Circuits | Model No. | | Dimensions(mm) | | Q'ty / reel |
|---|---|---|---|---|---|
| | Without a boss | With a boss | A | B | |
| 2 | **BM02B-PASS-(*)** | **BM02B-PASS-1-(*)** | 2.0 | 8.0 | 500 |
| 3 | **BM03B-PASS-(*)** | **BM03B-PASS-1-(*)** | 4.0 | 10.0 | 500 |
| 4 | **BM04B-PASS-(*)** | **BM04B-PASS-1-(*)** | 6.0 | 12.0 | 500 |
| 5 | **BM05B-PASS-(*)** | **BM05B-PASS-1-(*)** | 8.0 | 14.0 | 500 |
| 6 | **BM06B-PASS-(*)** | **BM06B-PASS-1-(*)** | 10.0 | 16.0 | 500 |
| 7 | **BM07B-PASS-(*)** | **BM07B-PASS-1-(*)** | 12.0 | 18.0 | 500 |
| 8 | **BM08B-PASS-(*)** | **BM08B-PASS-1-(*)** | 14.0 | 20.0 | 500 |
| 9 | **BM09B-PASS-(*)** | **BM09B-PASS-1-(*)** | 16.0 | 22.0 | 500 |
| 10 | **BM10B-PASS-(*)** | **BM10B-PASS-1-(*)** | 18.0 | 24.0 | 500 |
| 11 | **BM11B-PASS-(*)** | **BM11B-PASS-1-(*)** | 20.0 | 26.0 | 500 |
| 12 | **BM12B-PASS-(*)** | **BM12B-PASS-1-(*)** | 22.0 | 28.0 | 500 |
| 13 | **BM13B-PASS-(*)** | **BM13B-PASS-1-(*)** | 24.0 | 30.0 | 500 |
| 15 | **BM15B-PASS-(*)** | **BM15B-PASS-1-(*)** | 28.0 | 34.0 | 500 |

| Material and Finish |
|---|
| Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)<br>Wafer: PA, UL94V-0, natural (ivory)<br>Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment) |

***RoHS compliance*** *This product displays (LF)(SN) on a label.*
*Note: (*): TF…taping product*
*TFT…taping product with suction tape.*

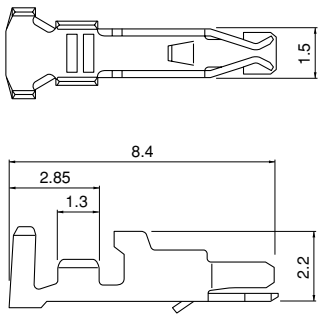
**Side entry type**

| Circuits | Model No. | | Dimensions(mm) | | Q'ty / reel |
|---|---|---|---|---|---|
| | Without a boss | With a boss | A | B | |
| 2 | **SM02B-PASS-(*)** | **SM02B-PASS-1-(*)** | 2.0 | 8.0 | 1,000 |
| 3 | **SM03B-PASS-(*)** | **SM03B-PASS-1-(*)** | 4.0 | 10.0 | 1,000 |
| 4 | **SM04B-PASS-(*)** | **SM04B-PASS-1-(*)** | 6.0 | 12.0 | 1,000 |
| 5 | **SM05B-PASS-(*)** | **SM05B-PASS-1-(*)** | 8.0 | 14.0 | 1,000 |
| 6 | **SM06B-PASS-(*)** | **SM06B-PASS-1-(*)** | 10.0 | 16.0 | 1,000 |
| 7 | **SM07B-PASS-(*)** | **SM07B-PASS-1-(*)** | 12.0 | 18.0 | 1,000 |
| 8 | **SM08B-PASS-(*)** | **SM08B-PASS-1-(*)** | 14.0 | 20.0 | 1,000 |
| 9 | **SM09B-PASS-(*)** | **SM09B-PASS-1-(*)** | 16.0 | 22.0 | 1,000 |
| 10 | **SM10B-PASS-(*)** | **SM10B-PASS-1-(*)** | 18.0 | 24.0 | 1,000 |
| 11 | **SM11B-PASS-(*)** | **SM11B-PASS-1-(*)** | 20.0 | 26.0 | 1,000 |
| 12 | **SM12B-PASS-(*)** | **SM12B-PASS-1-(*)** | 22.0 | 28.0 | 1,000 |
| 13 | **SM13B-PASS-(*)** | **SM13B-PASS-1-(*)** | 24.0 | 30.0 | 1,000 |
| 15 | **SM15B-PASS-(*)** | **SM15B-PASS-1-(*)** | 28.0 | 34.0 | 1,000 |

| Material and Finish |
|---|
| Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)<br>Wafer: PA, UL94V-0, natural (ivory)<br>Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment) |

***RoHS compliance*** *This product displays (LF)(SN) on a label.*
*Note: (*): TB…taping product*
*TBT…taping product with suction tape.*

## Contact




| Model No. | Applicable wire | | Insulation O.D. (mm) | Q'ty / reel |
|---|---|---|---|---|
| | mm² | AWG # | | |
| **SPA-001T-P0.5** | 0.13～0.33 | 26～22 | 0.9～1.5 | 10,000 |

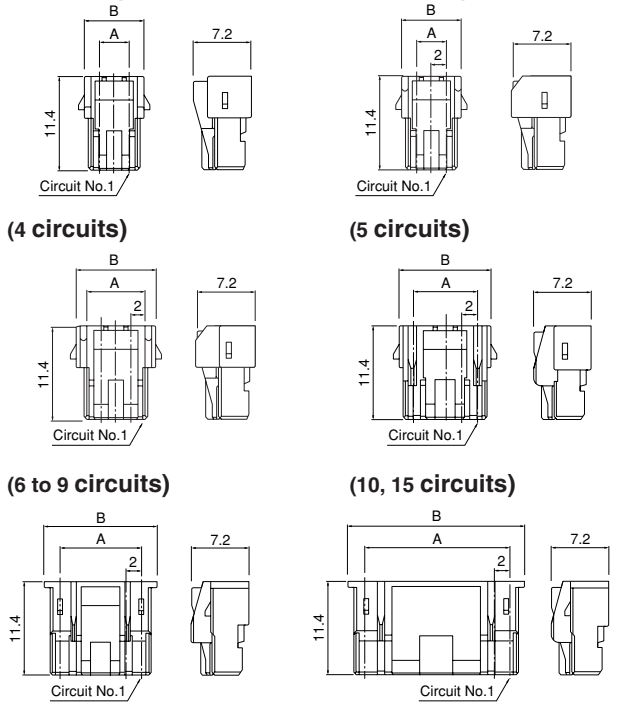
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

***RoHS compliance***

| Contact | Crimping machine | Applicator | | |
|---|---|---|---|---|
| | | Crimp applicator | Dies | Crimp applicator with dies |
| **SPA-001T-P0.5** | AP-K2N | MKS-L | MK/SPA-001-05 | APLMK SPA001-05 |
| | | — | — | — |

## Housing




| Circuits | Model No. | Dimensions(mm) | | Q'ty / bag |
|---|---|---|---|---|
| | | A | B | |
| 2 | **PARP-02V** | 2.0 | 5.4 | 1,000 |
| 3 | **PARP-03V** | 4.0 | 7.4 | 1,000 |
| 4 | **PARP-04V** | 6.0 | 9.4 | 1,000 |
| 5 | **PARP-05V** | 8.0 | 11.4 | 1,000 |
| 6 | **PARP-06V** | 10.0 | 14.0 | 1,000 |
| 7 | **PARP-07V** | 12.0 | 16.0 | 1,000 |
| 8 | **PARP-08V** | 14.0 | 18.0 | 1,000 |
| 9 | **PARP-09V** | 16.0 | 20.0 | 1,000 |
| 10 | **PARP-10V** | 18.0 | 22.0 | 1,000 |
| 15 | **PARP-15V** | 28.0 | 32.0 | 500 |

Material

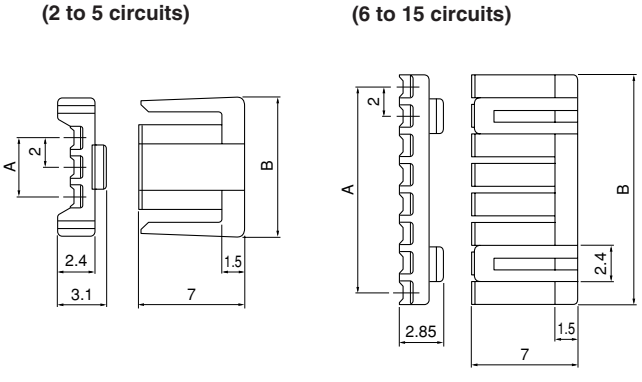
PA 66, UL94V-0, natural (white)

***RoHS compliance***

*<For reference> As the color identification,*
*the following alphabet shall be put in the underlined part.*
*For availability, delivery and minimum order quantity, contact JST.*

*ex.* **PARP-02V-oo**
*(blank)…natural (white)*
*R…red E…blue Y…yellow M…green*

## Retainer



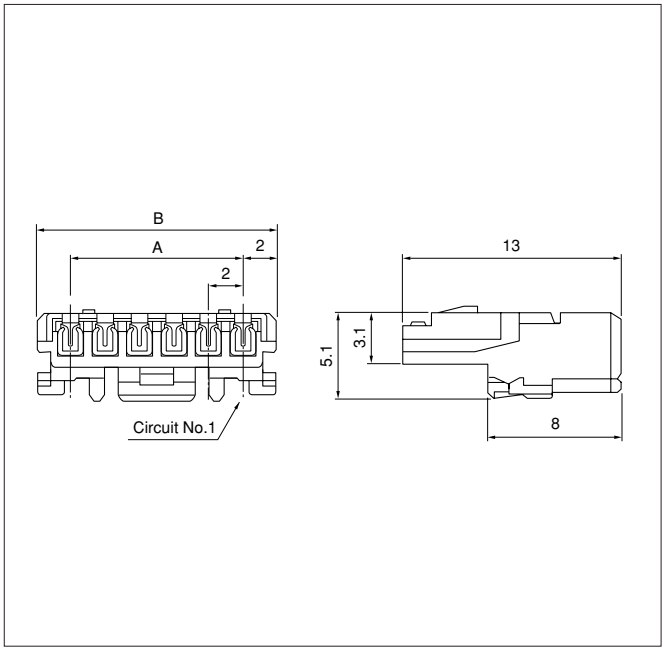

| Circuits | Model No. | Dimensions(mm) | | Q'ty / bag |
|---|---|---|---|---|
| | | A | B | |
| 2 | **PMS-02V-S** | 2.0 | 7.3 | 1,000 |
| 3 | **PMS-03V-S** | 4.0 | 9.3 | 1,000 |
| 4 | **PMS-04V-S** | 6.0 | 11.3 | 1,000 |
| 5 | **PMS-05V-S** | 8.0 | 13.3 | 1,000 |
| 6 | **PMS-06V-S** | 10.0 | 11.55 | 1,000 |
| 7 | **PMS-07V-S** | 12.0 | 13.55 | 1,000 |
| 8 | **PMS-08V-S** | 14.0 | 15.55 | 1,000 |
| 9 | **PMS-09V-S** | 16.0 | 17.55 | 1,000 |
| 10 | **PMS-10V-S** | 18.0 | 19.55 | 1,000 |
| 15 | **PMS-15V-S** | 28.0 | 29.55 | 1,000 |

Material

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

***RoHS compliance***

## Receptacle




| Circuits | Model No. | Dimensions(mm) | | Q'ty / box |
|---|---|---|---|---|
| | | A | B | |
| 2 | **02PAF-6S** | 2.0 | 6.0 | 1,000 |
| 3 | **03PAF-6S** | 4.0 | 8.0 | 1,000 |
| 4 | **04PAF-6S** | 6.0 | 10.0 | 500 |
| 5 | **05PAF-6S** | 8.0 | 12.0 | 500 |
| 6 | **06PAF-6S** | 10.0 | 14.0 | 500 |
| 7 | **07PAF-6S** | 12.0 | 16.0 | 500 |
| 8 | **08PAF-6S** | 14.0 | 18.0 | 250 |
| 9 | **09PAF-6S** | 16.0 | 20.0 | 250 |
| 10 | **10PAF-6S** | 18.0 | 22.0 | 250 |
| 11 | **11PAF-6S** | 20.0 | 24.0 | 250 |
| 12 | **12PAF-6S** | 22.0 | 26.0 | 250 |
| 13 | **13PAF-6S** | 24.0 | 28.0 | 250 |
| 14 | **14PAF-6S** | 26.0 | 30.0 | 250 |
| 15 | **15PAF-6S** | 28.0 | 32.0 | 250 |
| *16 | **16PAF-6S** | 30.0 | 34.0 | 250 |

| Material and Finish |
|---|
| Contact: Phosphor bronze, tin-plated (reflow treatment)<br>Housing: PA 66, UL94V-0, natural (white) |

***RoHS compliance***

*Note: *Marked product is not UL/CSA approved.*

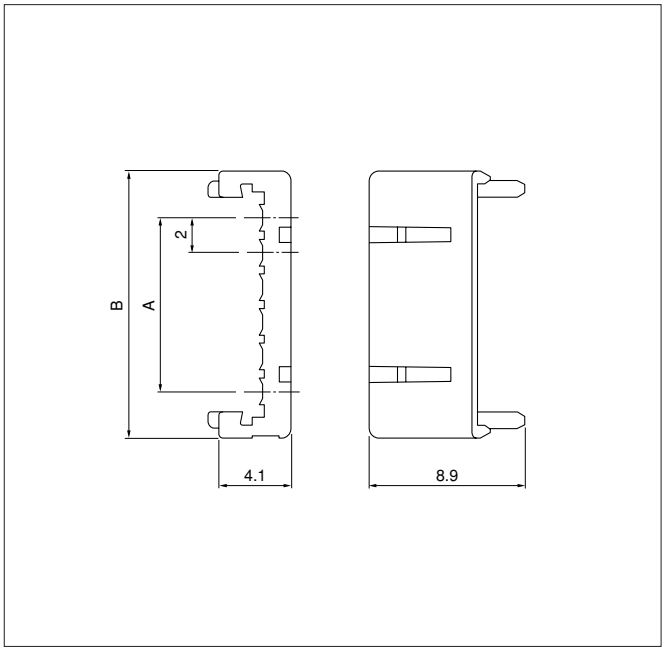
*<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.*

*ex.* **02PAF-6S**

*S…natural (white)*

*R…red E…blue M…green Y…yellow*

## Retainer



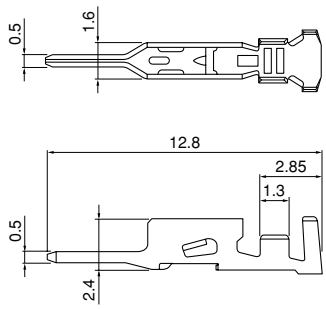

| Circuits | Model No. | Dimensions(mm) | | Q'ty / bag |
|---|---|---|---|---|
| | | A | B | |
| 2 | **PAFS-02V-S** | 2.0 | 7.4 | 1,000 |
| 3 | **PAFS-03V-S** | 4.0 | 9.4 | 1,000 |
| 4 | **PAFS-04V-S** | 6.0 | 11.4 | 1,000 |
| 5 | **PAFS-05V-S** | 8.0 | 13.4 | 1,000 |
| 6 | **PAFS-06V-S** | 10.0 | 15.4 | 1,000 |
| 7 | **PAFS-07V-S** | 12.0 | 17.4 | 1,000 |
| 8 | **PAFS-08V-S** | 14.0 | 19.4 | 1,000 |
| * 9 | **PAFS-09V-S** | 16.0 | 21.4 | 1,000 |
| *10 | **PAFS-10V-S** | 18.0 | 23.4 | 1,000 |
| *11 | **PAFS-11V-S** | 20.0 | 25.4 | 1,000 |
| *12 | **PAFS-12V-S** | 22.0 | 27.4 | 1,000 |
| *13 | **PAFS-13V-S** | 24.0 | 29.4 | 1,000 |
| *14 | **PAFS-14V-S** | 26.0 | 31.4 | 1,000 |
| *15 | **PAFS-15V-S** | 28.0 | 33.4 | 1,000 |

| Material |
|---|
| Glass-filled PA 66, UL94V-0, natural (ivory) |

***RoHS compliance***

*Note: *Marked products are not UL/CSA approved.*

## Contact




| Model No. | Applicable wire | | Insulation O.D. (mm) | Q'ty / reel |
|---|---|---|---|---|
| | mm² | AWG # | | |
| **SPAL-001T-P0.5** | 0.13～0.33 | 26～22 | 1.0～1.5 | 10,000 |
| **SPAL-002T-P0.5** | 0.08～0.21 | 28～24 | 0.9～1.5 | 10,000 |

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

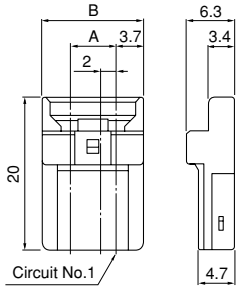
***RoHS compliance***

| Contact | Crimping machine | Applicator | | |
|---|---|---|---|---|
| | | Crimp applicator | Dies | Crimp applicator with dies |
| **SPAL-001T-P0.5** | AP-K2N | MKS-L | MK/SPAL-001-05 | APLMK SPAL001-05 |
| | | — | — | — |
| **SPAL-002T-P0.5** | | MKS-L | MK/SPAL-002-05 | APLMK SPAL002-05 |
| | | — | — | — |

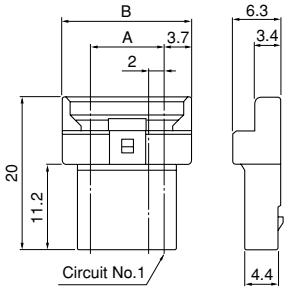
## Housing

**Without panel locks**

**(2 to 5 circuits)**

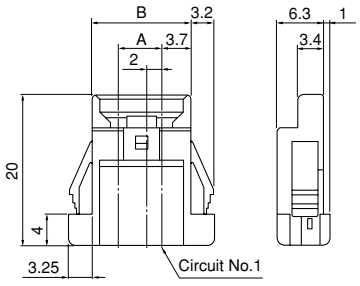



**(6 to 8 circuits)**

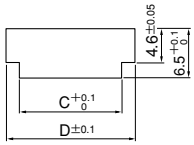



**With panel locks**

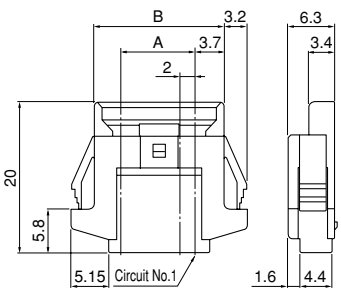
**(2 to 4 circuits)**



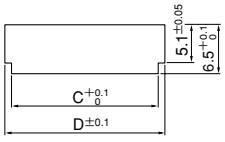

**Panel layout**




**(6 to 8 circuits)**




**Panel layout**




| Circuits | Model No. | Dimensions(mm) | | Q'ty / bag |
|---|---|---|---|---|
| | | A | B | |
| 2 | **PALR-02VF** | 2.0 | 9.4 | 1,000 |
| 3 | **PALR-03VF** | 4.0 | 11.4 | 1,000 |
| 4 | **PALR-04VF** | 6.0 | 13.4 | 1,000 |
| 5 | **PALR-05VF** | 8.0 | 15.4 | 1,000 |
| 6 | **PALR-06VF** | 10.0 | 17.4 | 1,000 |
| 7 | **PALR-07VF** | 12.0 | 19.4 | 1,000 |
| 8 | **PALR-08VF** | 14.0 | 21.4 | 1,000 |

Material

PA 66, UL94V-0, natural (white)

***RoHS compliance***

| Circuits | Model No. | Dimensions(mm) | | | | Q'ty / bag |
|---|---|---|---|---|---|---|
| | | A | B | C | D | |
| 2 | **PALR-02V** | 2.0 | 9.4 | 9.8 | 13.4 | 1,000 |
| 3 | **PALR-03V** | 4.0 | 11.4 | 11.8 | 15.4 | 1,000 |
| 4 | **PALR-04V** | 6.0 | 13.4 | 13.8 | 17.4 | 1,000 |
| 6 | **PALR-06V** | 10.0 | 17.4 | 19.8 | 21.4 | 1,000 |
| 7 | **PALR-07V** | 12.0 | 19.4 | 21.8 | 23.4 | 1,000 |
| 8 | **PALR-08V** | 14.0 | 21.4 | 23.8 | 25.4 | 1,000 |

Material

PA 66, UL94V-0, natural (white)

***RoHS compliance***

*<For reference> As the color identification,*
*the following alphabet shall be put in the underlined part.*
*For availability, delivery and minimum order quantity, contact JST.*

*ex.* **PALR-02V(F)-oo**
*(blank)…natural (white)*
*R…red E…blue M…green Y…yellow*

## Retainer

Retainers are interchangeable with those of the PA crimp style retainer mountable type.