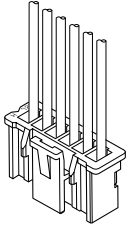
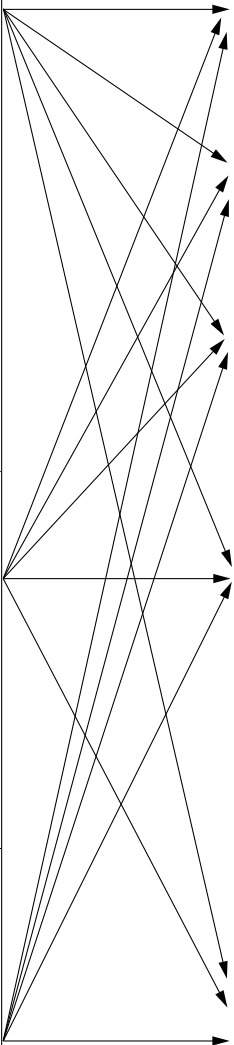
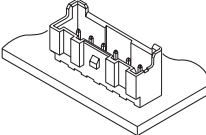
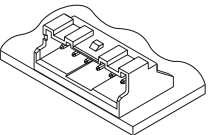
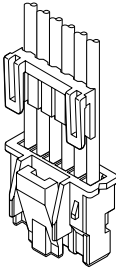
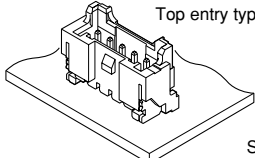
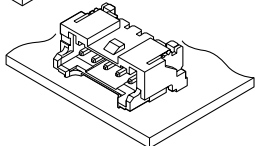
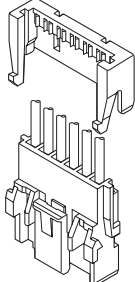
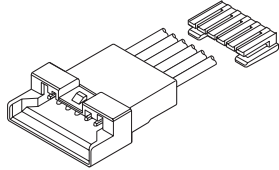


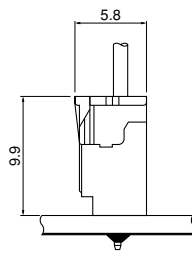
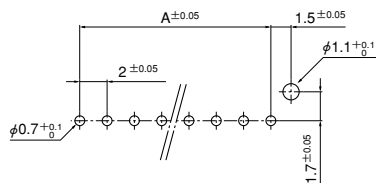
PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

List of combinations

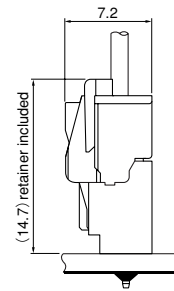
Crimp style Standard type 	<u>Contact</u> SPHD-001T-P0.5 SPHD-002T-P0.5 <u>Housing</u> PAP-()V-S		<u>Shrouded header</u> B()B-PASK B()B-PASK-1 S()B-PASK-2	Top entry type Side entry type  
Crimp style Retainer mountable type 	<u>Contact</u> SPA-001T-P0.5 <u>Housing</u> PARP-()V <u>Retainer</u> PMS-()V-S		<u>Shrouded header</u> BM()B-PASS BM()B-PASS-1 SM()B-PASS SM()B-PASS-1	SMT type Top entry type Side entry type  
Insulation displacement type 	<u>Receptacle</u> ()PAF-6S <u>Retainer</u> PAFS-()V-S		<u>Contact</u> SPAL-001T-P0.5 SPAL-002T-P0.5 <u>Receptacle housing</u> PALR-()V(F) <u>Retainer</u> PMS-()V-S	Wire to wire Connectors 

PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

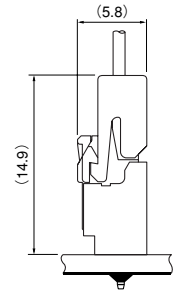
Through-hole type Top entry type



PA Receptacle
(Standard type)
+
PA Header

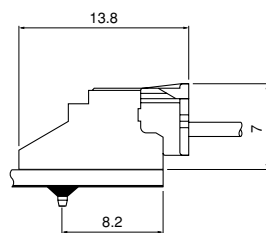
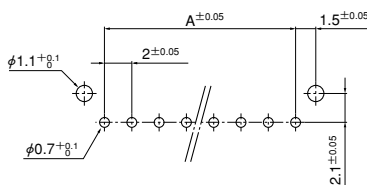


PA Receptacle
(Retainer mountable type)
+
PA Header

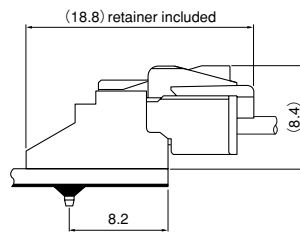


PAF Receptacle
+
PA Header

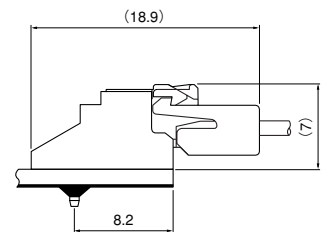
Side entry type



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

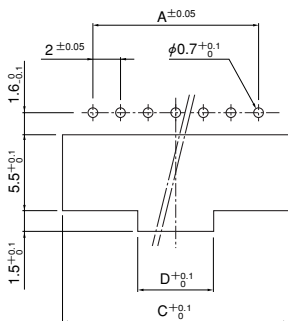


PA Receptacle
(Retainer mountable type)
+
PA side entry type header

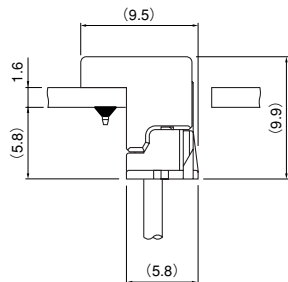


PAF Receptacle
+
PA side entry type header

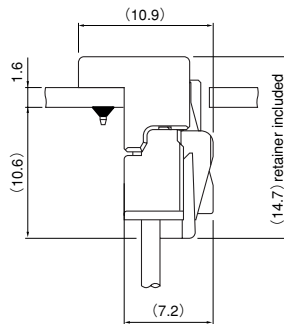
Bottom type



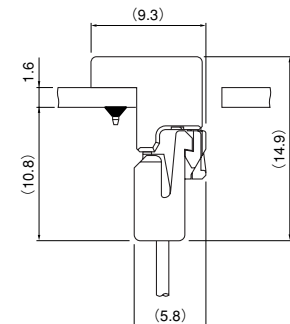
Note: C and D dimensions; Refer to the header bottom type.



PA Receptacle
(Standard type)
+
PA bottom type header

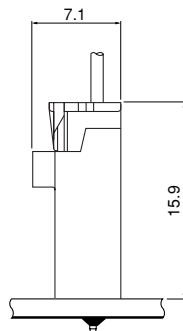
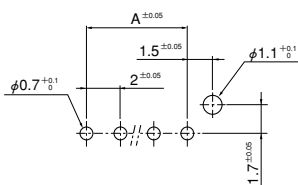


PA Receptacle
(Retainer mountable type)
+
PA bottom type header

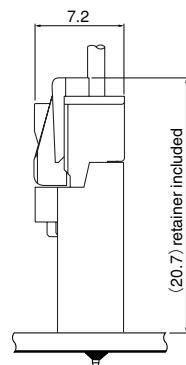


PAF Receptacle
+
PA bottom type header

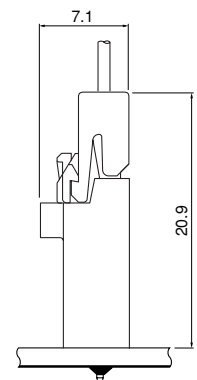
High box type



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.

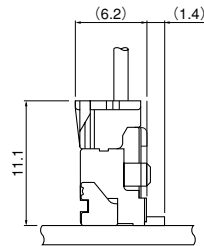
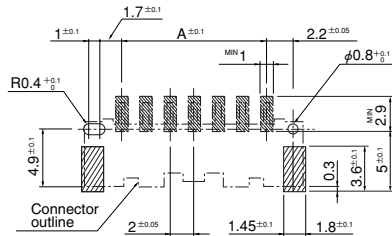
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

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.

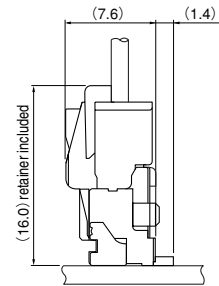
PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

SMT type

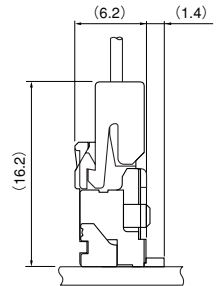
Top entry type



PA Receptacle
(Standard type)
+
PA Header

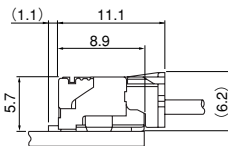
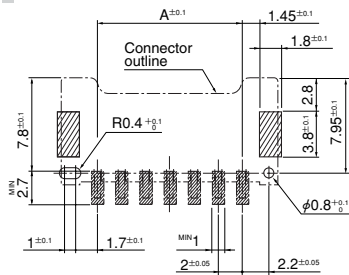


PA Receptacle
(Retainer mountable type)
+
PA Header

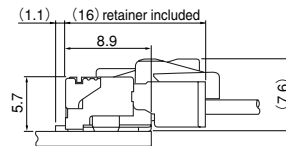


PAF Receptacle
+
PA Header

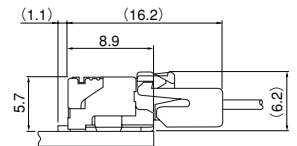
Side entry type



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



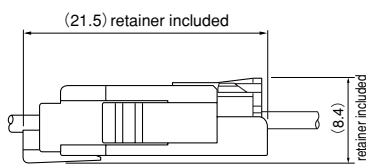
PA Receptacle
(Retainer mountable type)
+
PA side entry type header



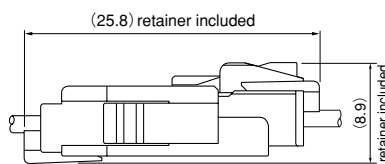
PAF Receptacle
+
PA side entry type header

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

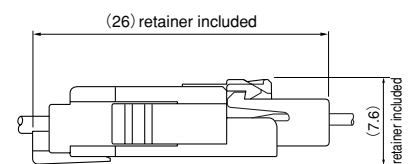
Wire-to-wire



PA Receptacle
(Standard type)
+
PAL Receptacle



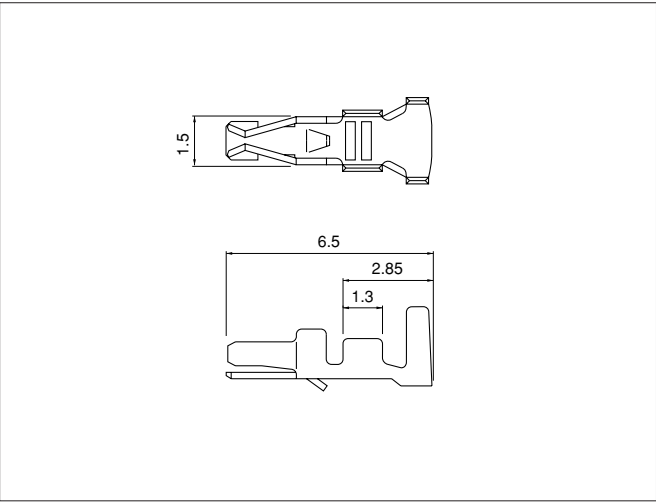
PA Receptacle
(Retainer mountable type)
+
PAL Receptacle



PAF Receptacle
+
PAL Receptacle

PA FAMILY SERIES /PA CONNECTOR (Crimp style Standard type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	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

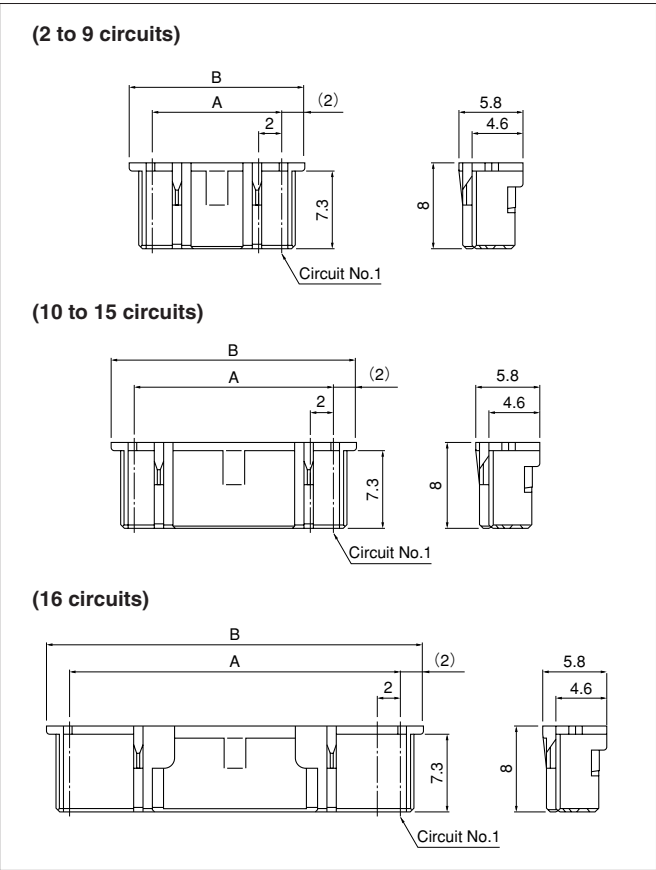
Phosphor bronze, tin-plated (reflow treatment)

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



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)

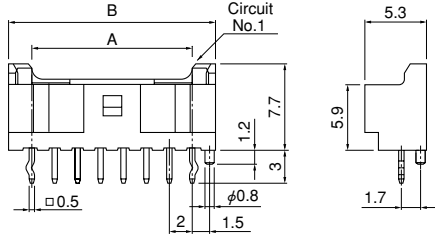
RoHS compliance

<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.

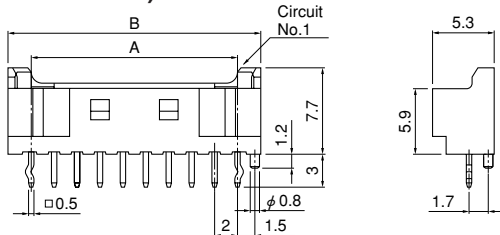
ex. **PAP-02V-S**
S...natural (white)
K...black R...red E...blue M...green O...orange N...brown
P...purple PK...pink Y...yellow L...lemon yellow FY...vivid yellow
LE...light blue H...gray TR...tomato red

Through-hole type shrouded header

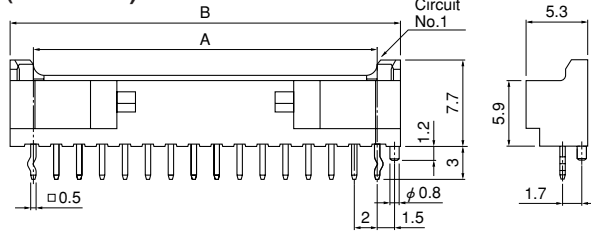
Top entry type (2 to 9 circuits)



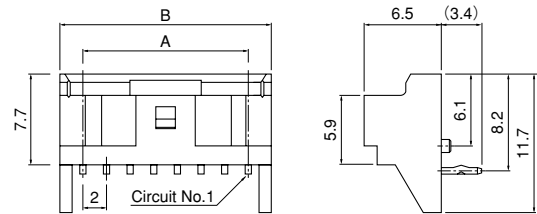
(10 to 15 circuits)



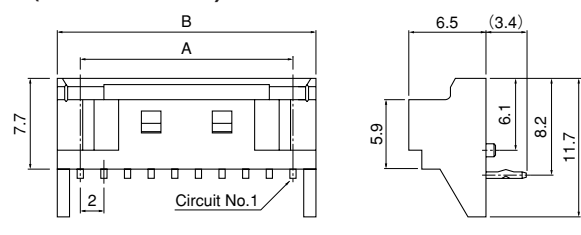
(16 circuits)



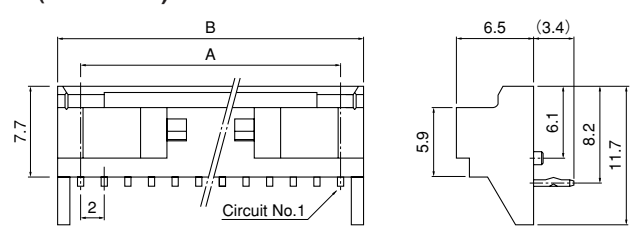
Side entry type (2 to 9 circuits)



(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.

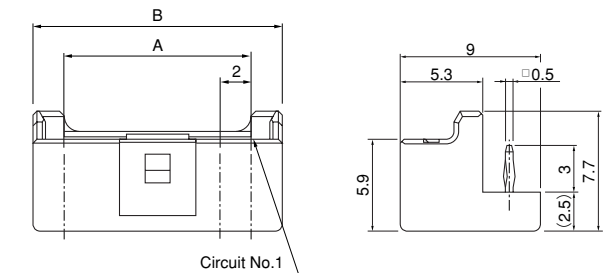
ex. **S03B-PASK-2**

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

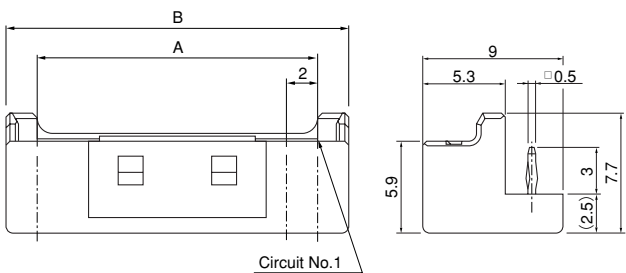
Through-hole type shrouded header

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

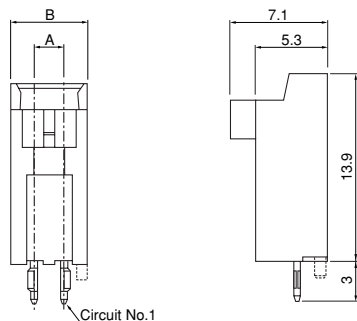
Material and Finish

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

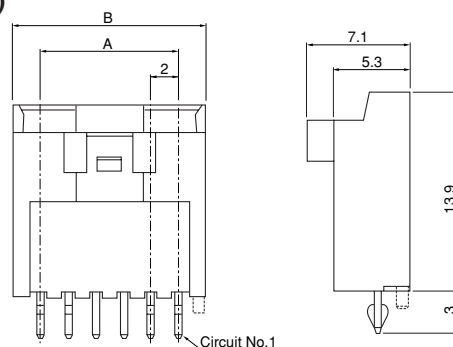
RoHS compliance This product displays (LF)(SN) on a label.
Note: C and D dimensions; Refer to the PCB layout bottom type (P3).

Shrouded header <High box type>

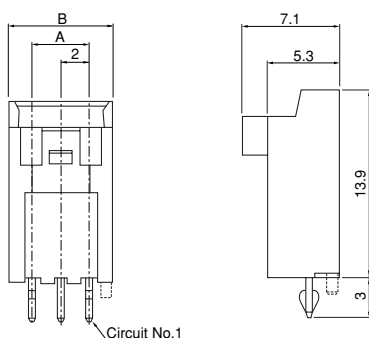
(2 circuits)



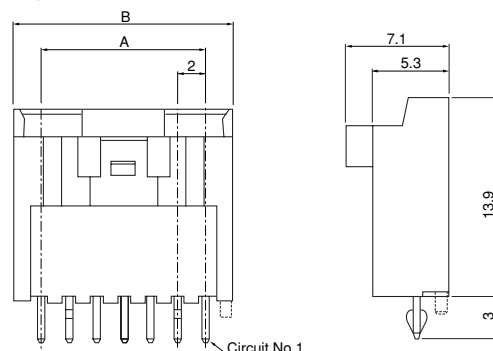
(5, 6 circuits)



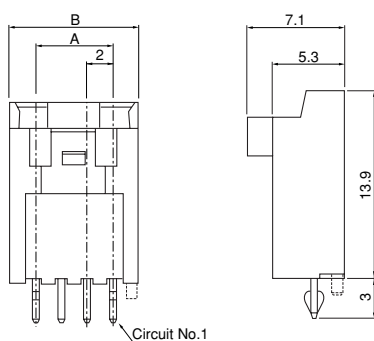
(3 circuits)



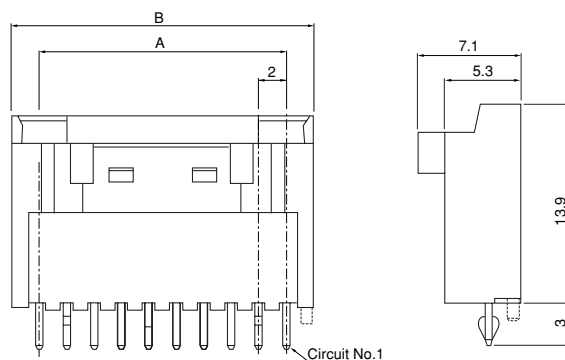
(7 to 9 circuits)



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

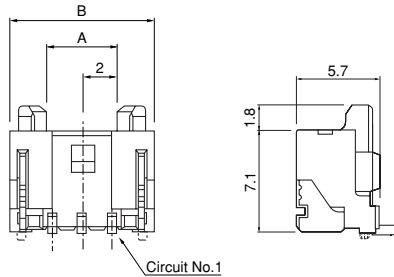
RoHS compliance This product displays (LF)(SN) on a label.

PA FAMILY SERIES

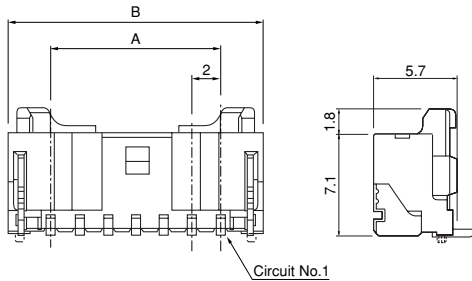
SMT type shrouded header

Top entry type

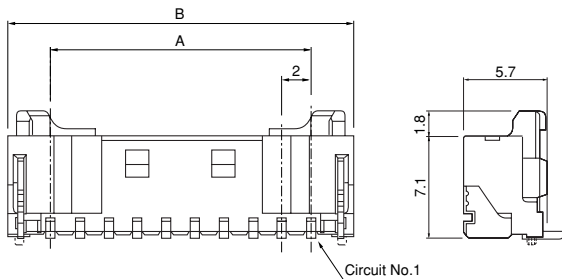
(2 to 3 circuits)



(4 to 9 circuits)

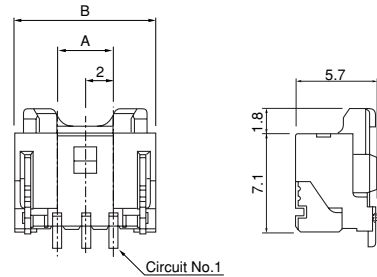


(10 to 13, 15 circuits)

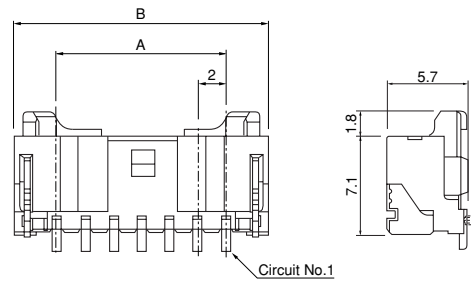


Side entry type

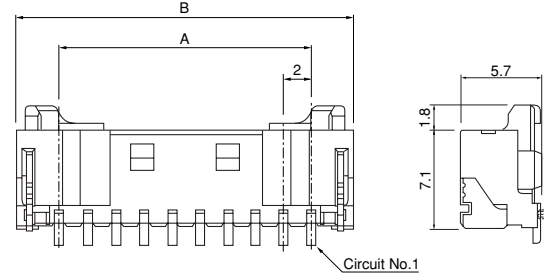
(2 to 3 circuits)



(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)
 Wafer: PA, UL94V-0, natural (ivory)
 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)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

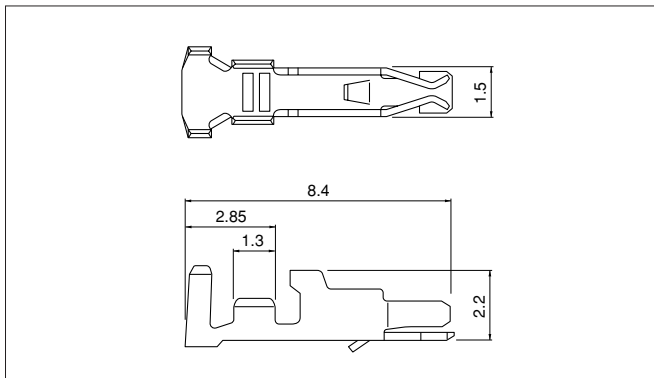
RoHS compliance This product displays (LF)(SN) on a label.

Note: (*): TB...taping product

TBT...taping product with suction tape.

PA FAMILY SERIES /PA CONNECTOR (Crimp style Retainer mountable type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPA-001T-P0.5	0.13~0.33	26~22	0.9~1.5	10,000

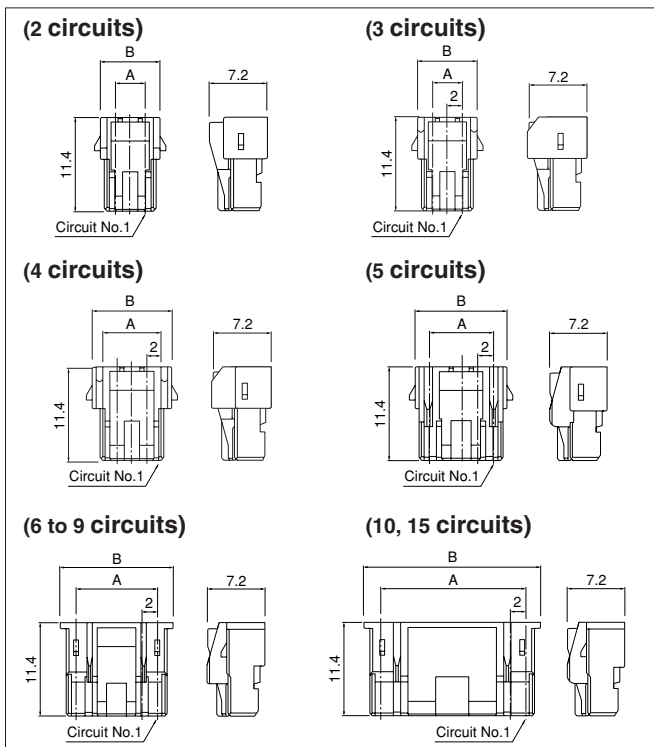
Material and Finish

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

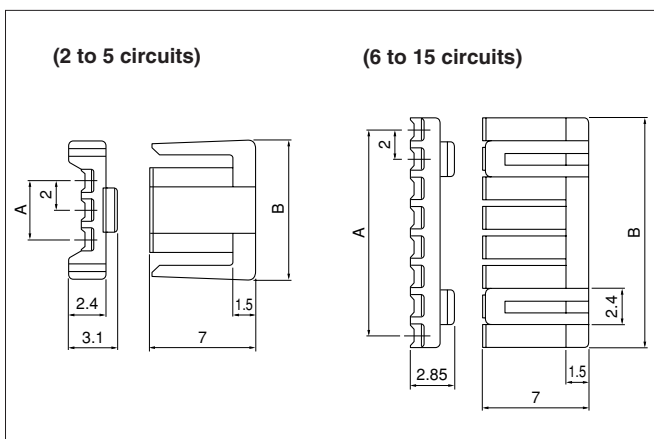
PA 66, UL94V-0, natural (white)

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

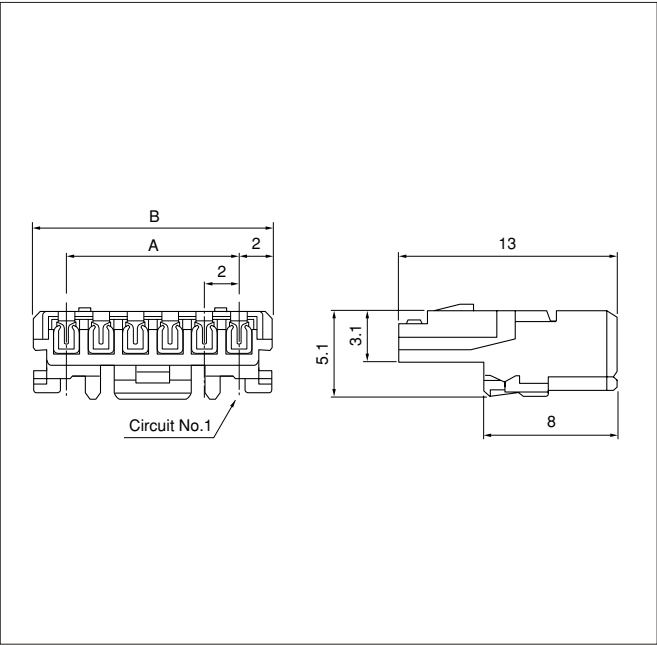
Material

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

RoHS compliance

PA FAMILY SERIES /PAF CONNECTOR (Insulation displacement type)

Receptacle

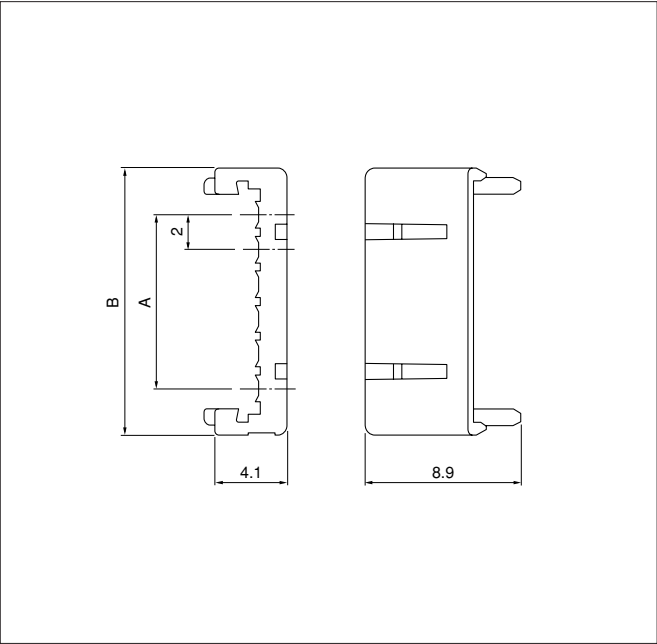


Circuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
2	02PAF-6S	2.0	6.0	1,000
3	03PAF-6S	4.0	8.0	1,000
4	04PAF-6S	6.0	10.0	500
5	05PAF-6S	8.0	12.0	500
6	06PAF-6S	10.0	14.0	500
7	07PAF-6S	12.0	16.0	500
8	08PAF-6S	14.0	18.0	250
9	09PAF-6S	16.0	20.0	250
10	10PAF-6S	18.0	22.0	250
11	11PAF-6S	20.0	24.0	250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



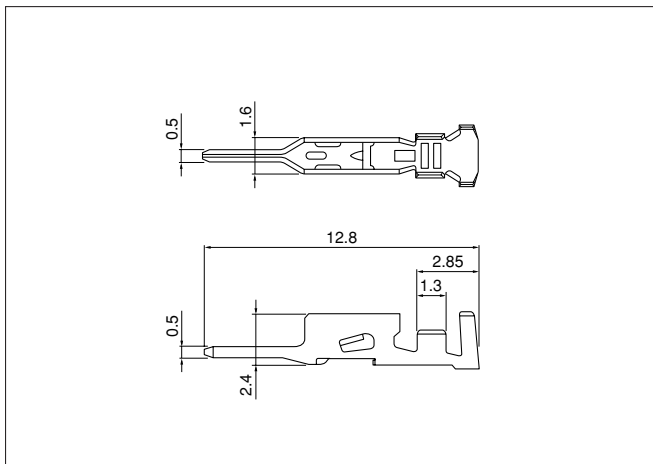
Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PAFS-02V-S	2.0	7.4	1,000
3	PAFS-03V-S	4.0	9.4	1,000
4	PAFS-04V-S	6.0	11.4	1,000
5	PAFS-05V-S	8.0	13.4	1,000
6	PAFS-06V-S	10.0	15.4	1,000
7	PAFS-07V-S	12.0	17.4	1,000
8	PAFS-08V-S	14.0	19.4	1,000
* 9	PAFS-09V-S	16.0	21.4	1,000
*10	PAFS-10V-S	18.0	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.

PA FAMILY SERIES /PAL CONNECTOR (Wire-to-wire type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	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

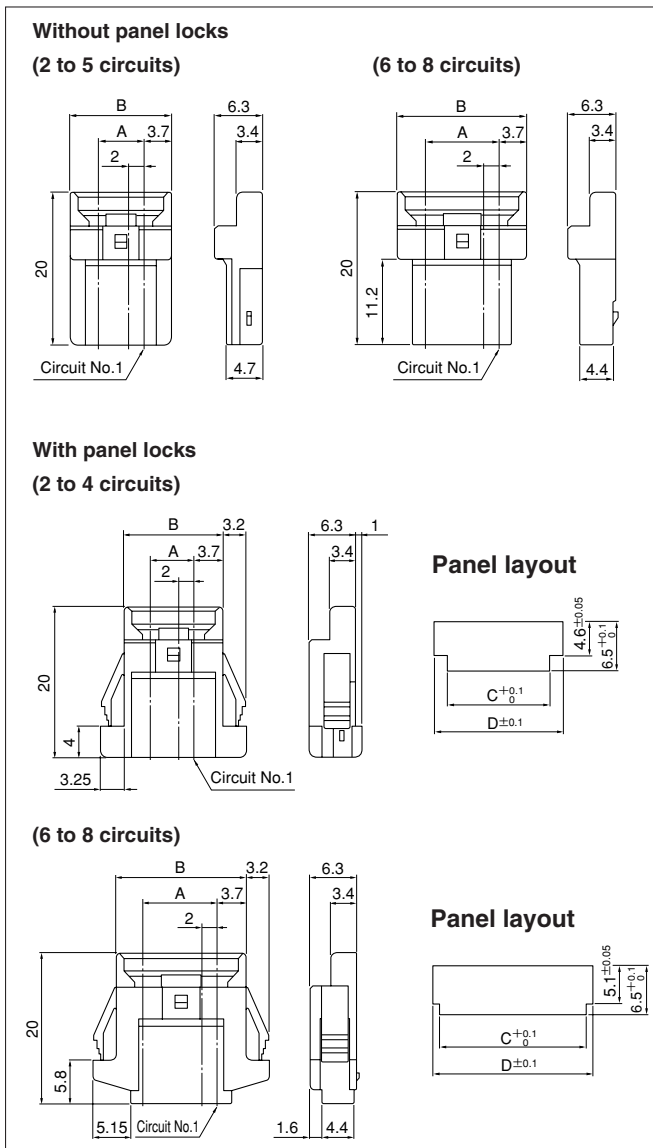
Material and Finish

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	AP-K2N	MKS-L	MK/SPAL-002-05	APLMK SPAL002-05
		—	—	—

Housing



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.