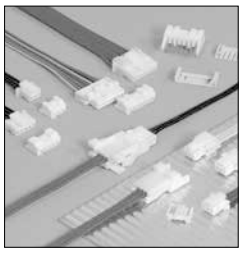
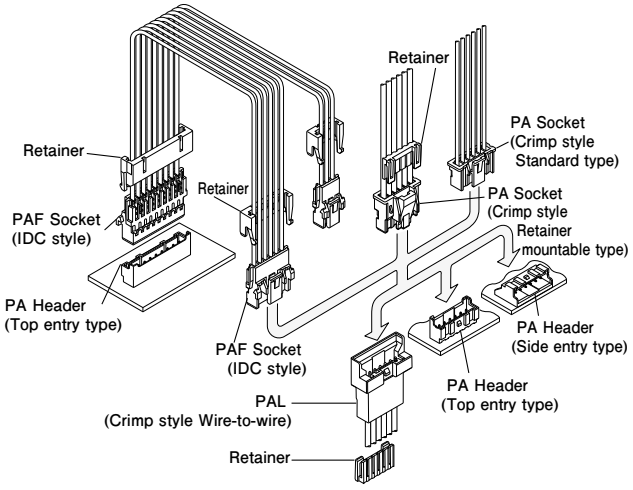


PA FAMILY/PA • PAF • PAL CONNECTORS

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



The 2.0 mm pitch PA family consists of the following connectors:
・PA connector (Wire-to-board crimp style)
・PAF connector (Wire-to-board insulation displacement connection (IDC) style)
・PAL connector (Wire-to-wire crimp style)
These features enabled a harness with complicated shape for the first time as a 2.0 mm pitch connector with secure locking mechanism.

- **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 IDC connectors**
- **Metallic strain relief**
- **Retainer with four locking points**

PAL connector

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

Standards

Recognized E60389

Specifications

PA Connector (Standard type)

- Current rating: 3 A AC/DC (AWG #22)
- Voltage rating: 250 V AC/DC
- Temperature range: -25℃ to +85℃
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
  After environmental tests/ 20 mΩ max.
- Insulation resistance: Initial/ 1,000 MΩ min.
- Withstanding voltage: 800 VAC/minute
- Applicable wire: Conductor size/ AWG #28 to #22
  Insulation O.D./ 0.76 to 1.5 mm
- Applicable PC board thickness: 1.6 mm

PA Connector (Retainer mountable type)

- Current rating: 3 A AC/DC (AWG #22)
- Voltage rating: 100 V AC/DC
- Temperature range: -25℃ to +85℃
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15 mΩ max.
  After environmental tests/ 25 mΩ max.
- Insulation resistance: Initial/ 1,000 MΩ min.
- Withstanding voltage: 800 V AC/minute
- Applicable wire: AWG #26 to #22

PAF Connector

- Current rating: 1.0 A AC/DC (AWG #26)
- Voltage rating: 100 V AC/DC
- Temperature range: -25℃ to +85℃
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15 mΩ max.
  After environmental tests/ 25 mΩ max.
- Insulation resistance: Initial/ 1,000 MΩ min.
- Withstanding voltage: 800 VAC/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 1.0 mm

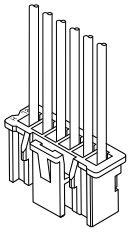
PAL Connector

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

* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
* RoHS2 compliance
* Dimensional unit: mm
* Contact JST for details.

List of combinations

Crimp style
Standard type

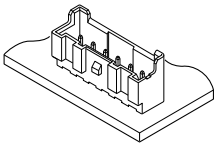


Contact
SPHD-001T-P0.5
SPHD-002T-P0.5

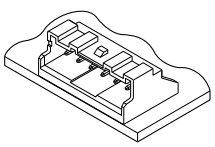
Housing
PAP-( )V-S

Header
B( )B-PASK
B( )B-PASK-1
B( )B-PASK-N
B( )B-PASK-1N
S( )B-PASK-2

Top entry type

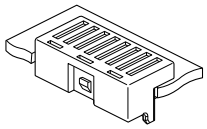


Side entry type



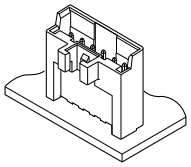
Header
BE( )B-PASK
BE( )B-PASK-C

Bottom type

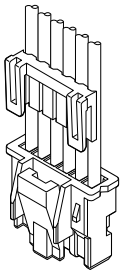


Header
BH( )B-PASK
BH( )B-PASK-1

High box type



Crimp style
Retainer mountable type



Contact
SPA-001T-P0.5

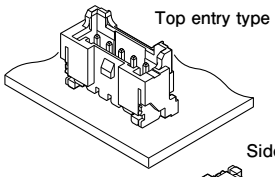
Housing
PARP-( )V

Retainer
PMS-( )V-S

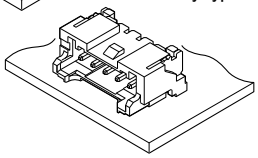
Header
BM( )B-PASS
BM( )B-PASS-1
SM( )B-PASS
SM( )B-PASS-1

SMT type

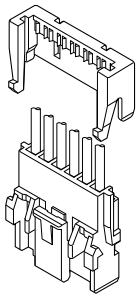
Top entry type



Side entry type



IDC style



Socket
( )PAF-6S

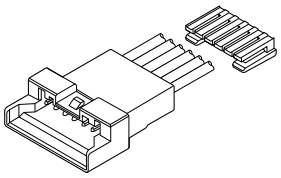
Retainer
PAFS-( )V-S

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

Receptacle housing
PALR-( )V(F)

Retainer
PMS-( )V-S

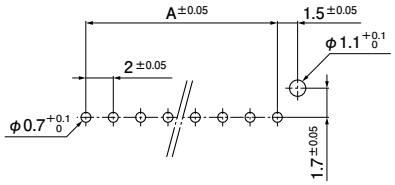
Wire to wire type

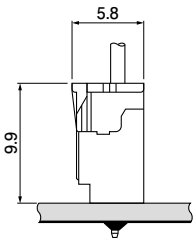


PC board layout and Assembly layout

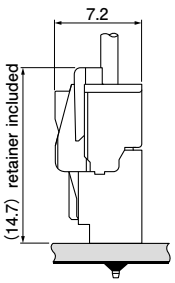
<Through-hole type>

Top entry type

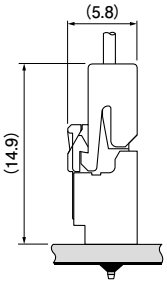




PA Socket
(Standard type)
+
PA Header

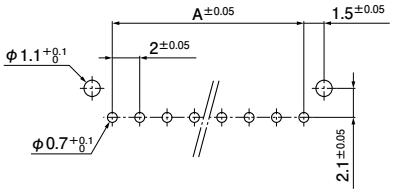


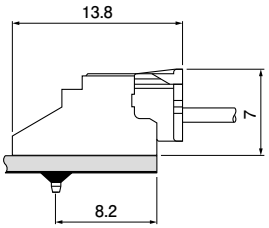
PA Socket
(Retainer mountable type)
+
PA Header



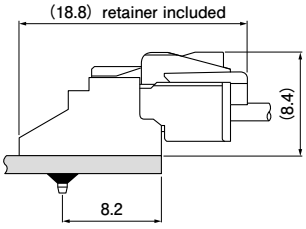
PAF Socket
+
PA Header

Side entry type

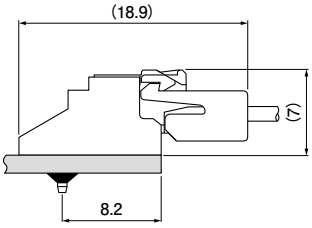




PA Socket
(Standard type)
+
PA side entry type header

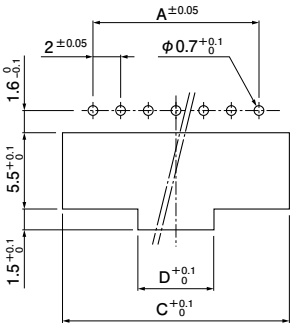


PA Socket
(Retainer mountable type)
+
PA side entry type header

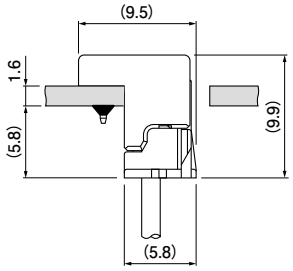


PAF Socket
+
PA side entry type header

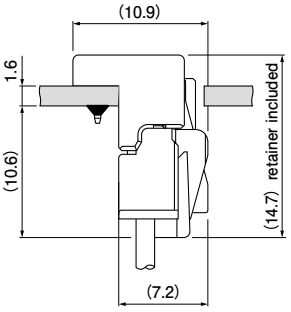
Bottom type



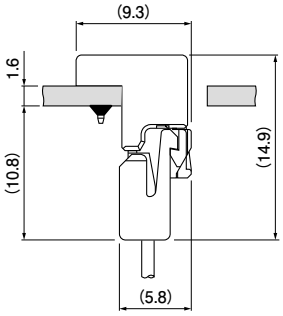
Note: Dimensions C and D; Refer to the header bottom type.



PA Socket
(Standard type)
+
PA bottom type header

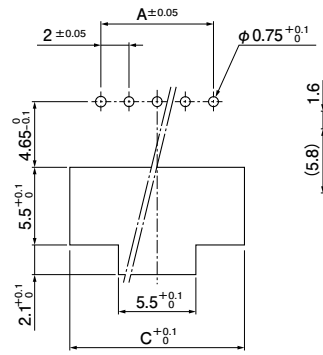


PA Socket
(Retainer mountable type)
+
PA bottom type header

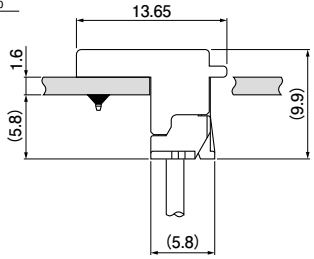


PAF Socket
+
PA bottom type header

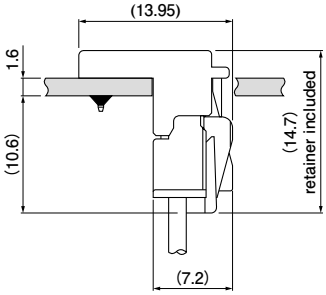
Bottom type with extended length



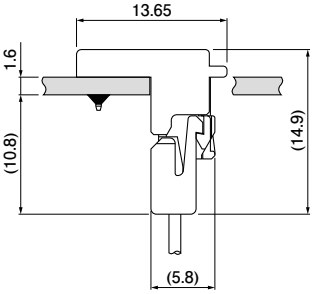
Note: Dimensions C; Refer to the header bottom type.



PA Socket
(Standard type)
+
PA bottom type header
(Extended lenght type)



PA Socket
(Retainer mountable type)
+
PA bottom type header
(Extended lenght type)

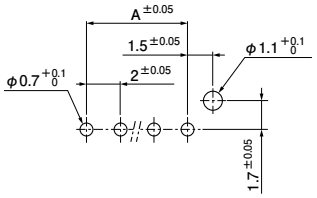


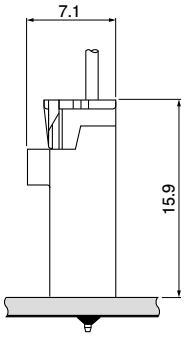
PAF Socket
+
PA bottom type header
(Extended lenght type)

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. Hole dimensions differ according to the type of PC board and piercing method.
Please contact JST for details as the dimensions shown in the above figure are reference values.

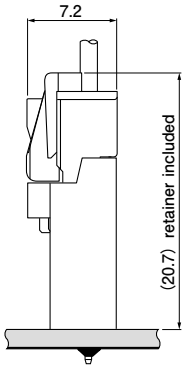
PC board layout and Assembly layout

High box type

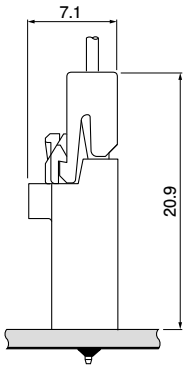




PA Socket
(Standard type)
+
PA high box type header



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

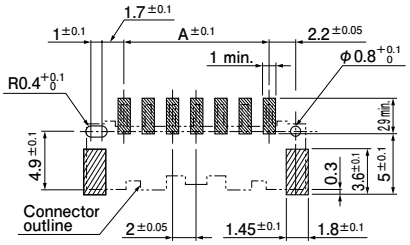


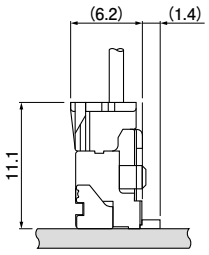
PAF Socket
+
PA high box type header

Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method.
Please contact JST for details as the dimensions shown in the above figure are reference values.

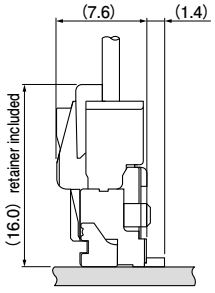
<SMT type>

Top entry type

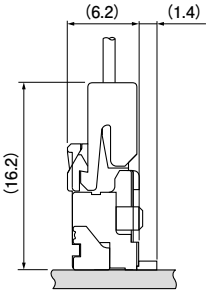




PA Socket
(Standard type)
+
PA Header

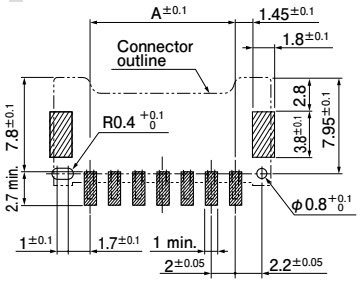


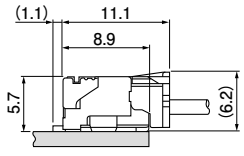
PA Socket
(Retainer mountable type)
+
PA Header



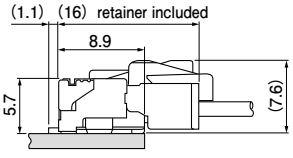
PAF Socket
+
PA Header

Side entry type

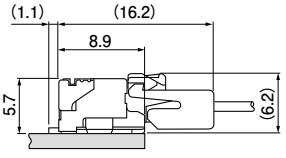




PA Socket
(Standard type)
+
PA side entry type header (SMT)



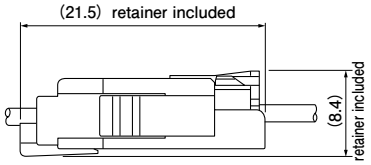
PA Socket
(Retainer mountable type)
+
PA side entry type header (SMT)



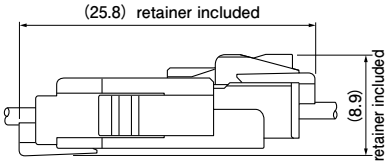
PAF Socket
+
PA side entry type header (SMT)

Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances for the centers of pattern on PCB is ± 0.05, and shall be not cumulative more than ± 0.1.
3. Please contact JST for details as the dimensions shown in the above figure are reference values.

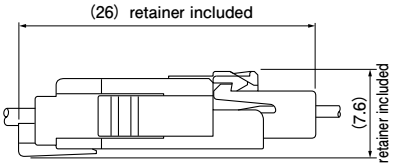
<Wire-to-wire>



PA Socket
(Standard type)
+
PAL Receptacle

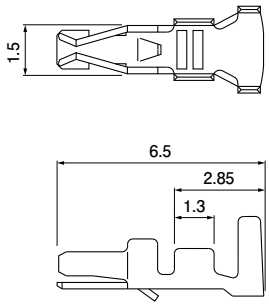


PA Socket
(Retainer mountable type)
+
PAL Receptacle



PAF Socket
+
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	0.76～1.5	8,000

Material and Finish
Phosphor bronze, tin-plated(reflow treatment)

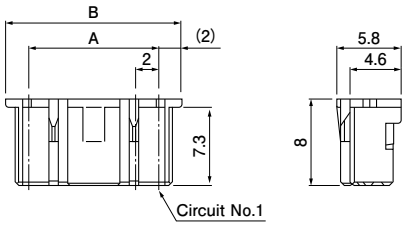
RoHS2 compliance

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
SPHD-001T-P0.5			MK/SPHD-001-05	APLMK SPHD001-05

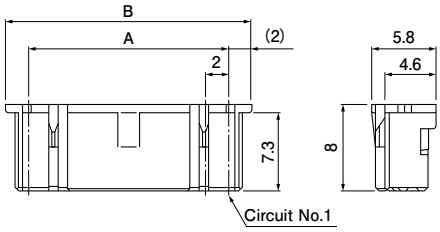
Note: Contact JST for fully automatic crimping applicator.

Housing

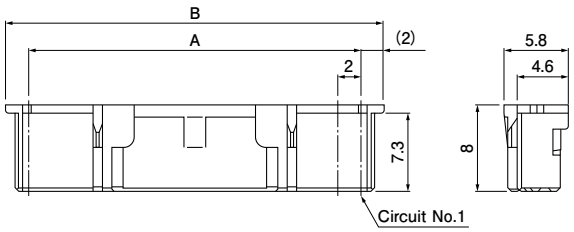
<2 to 9 circuits>



<10 to 15 circuits>



<16 circuits>



No. of 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

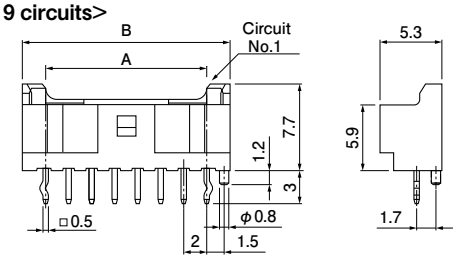
Material and Finish
PA 66, UL94V-0, natural (white)

RoHS2 compliance

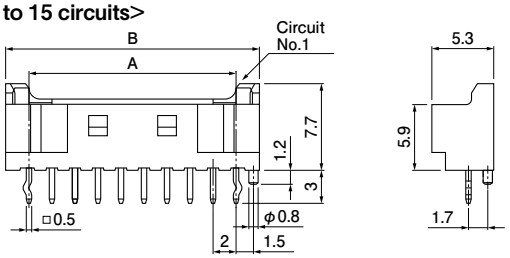
Through-hole type header

Top entry type

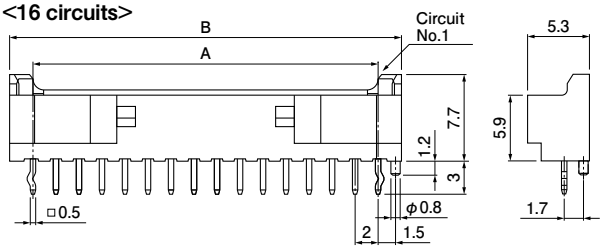
<2 to 9 circuits>



<10 to 15 circuits>

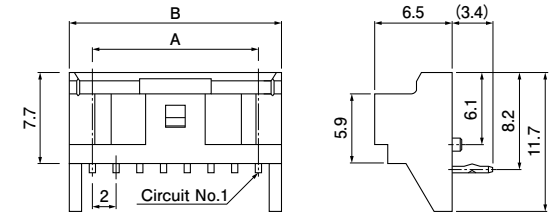


<16 circuits>



Side entry type

<2 to 9 circuits>



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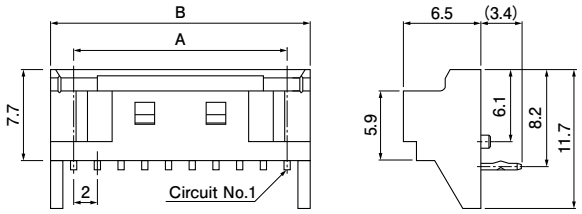

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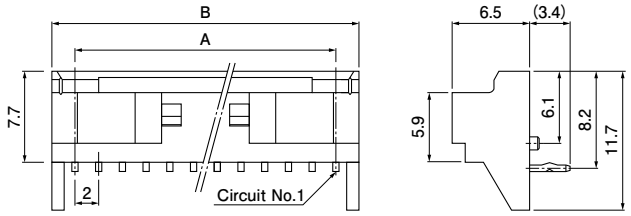


Top entry type

No. of circuits	Model No.		Dimensions (mm)		Q'ty/ box
	Without 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, vivid yellow

RoHS2 compliance This product displays (LF)(SN) on a label.

Side entry type

No. of 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

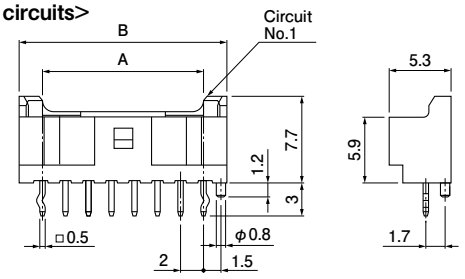
Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS2 compliance This product displays (LF)(SN) on a label.

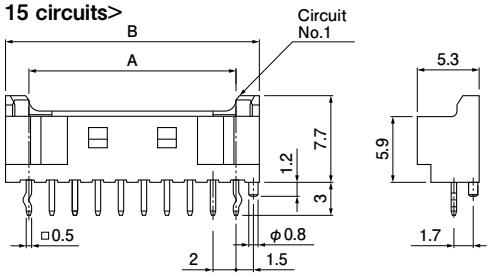
Through-hole type header

N type

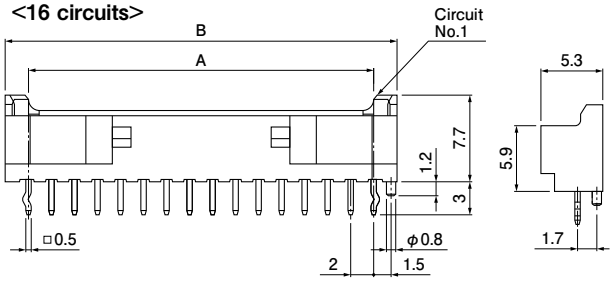
<2 to 9 circuits>



<10 to 15 circuits>

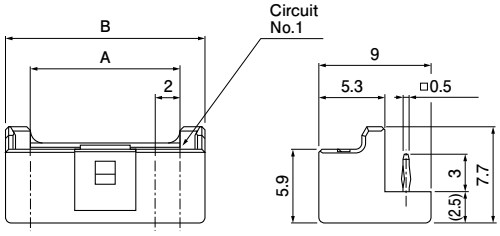


<16 circuits>



Bottom type

<5, 8 circuits>



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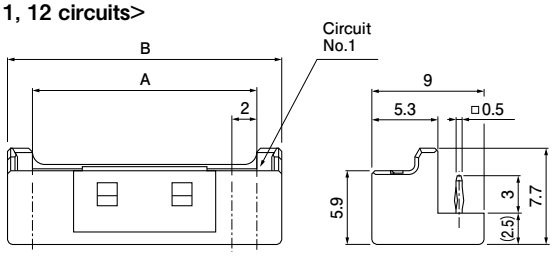
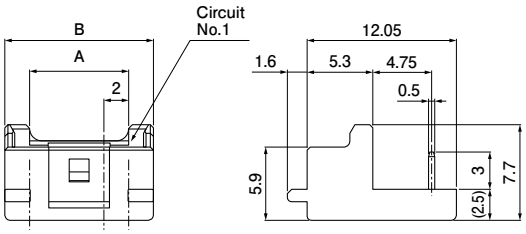


Bottom type with extended length



N type

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

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural

RoHS2 compliance This product displays (LF)(SN) on a label.

Bottom type

No. of 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

RoHS2 compliance This product displays (LF)(SN) on a label.
Note: Dimemsions C and D; Refer to the PCB layout bottom type (page 3).

Bottom type with extended length

No. of circuits	Model No.	Dimensions (mm)			Q'ty/ box
		A	B	C	
4	BE04B-PASK-C	6.0	10.0	10.4	1,050
5	BE05B-PASK-C	8.0	12.0	12.4	875
6	BE06B-PASK-C	10.0	14.0	14.4	750

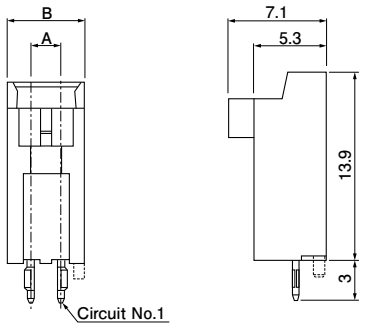
Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural

RoHS2 compliance This product displays (LF)(SN) on a label.
Note: 1. Dimemsions C; Refer to the PCB layout bottom type (page 3).
2. Unlisted in UL.

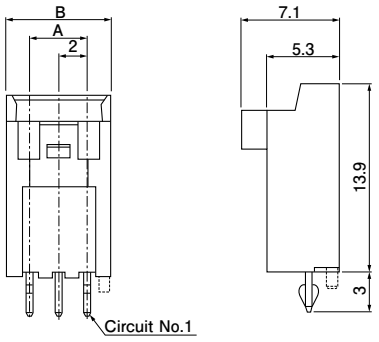
Through-hole type header

High box type

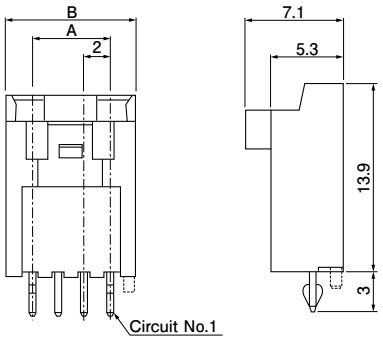
<2 circuits>



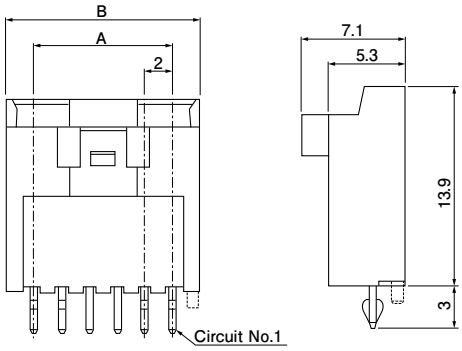
<3 circuits>



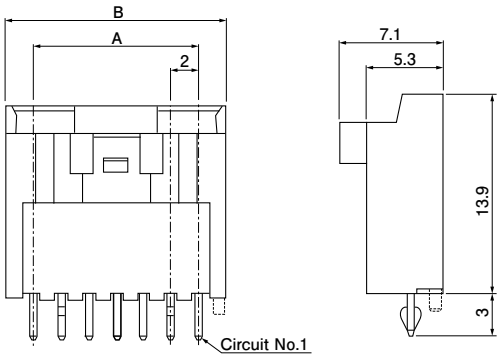
<4 circuits>



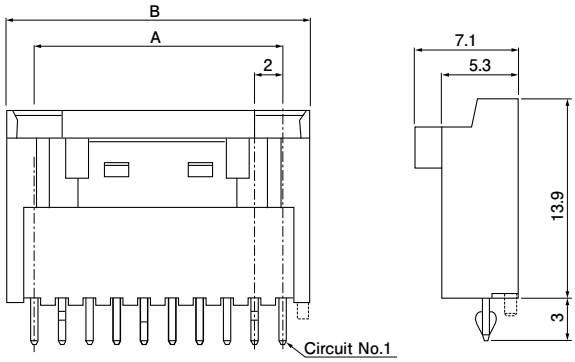
<5, 6 circuits>



<7 to 9 circuits>



<10 to 12, 15 circuits>



No. of 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

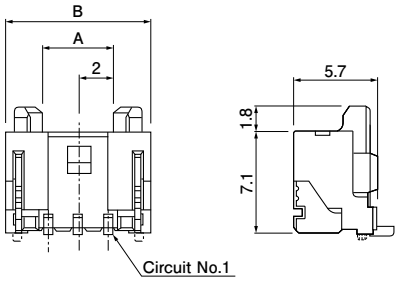
Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS2 compliance This product displays (LF)(SN) on a label.

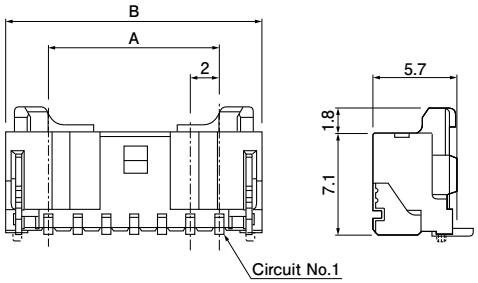
SMT type header

Top entry type

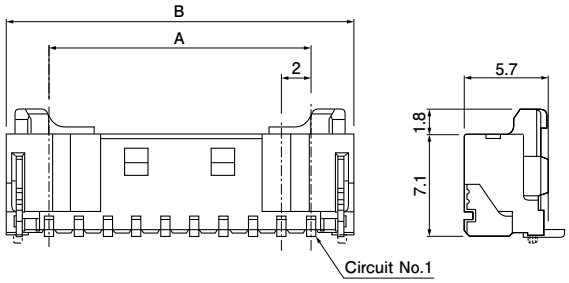
<2 and 3 circuits>



<4 to 9 circuits>

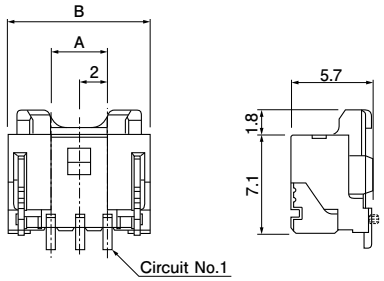


<10 to 13, 15 circuits>

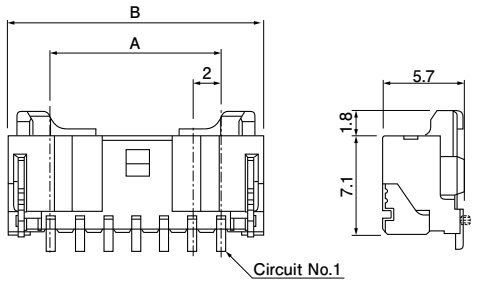


Side entry type

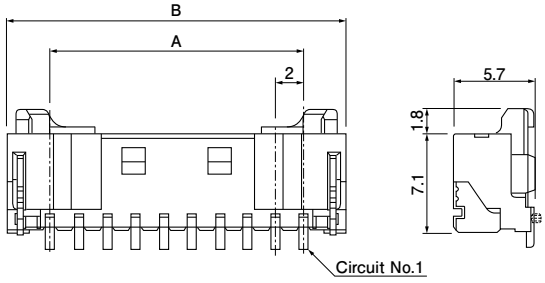
<2 and 3 circuits>



<4 to 9 circuits>



<10 to 13, 15 circuits>



Top entry type

No. of 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)

RoHS2 compliance This product displays (LF)(SN) on a label.
Note: (*): TF···taping product
TFT···taping product with suction tape.

Side entry type

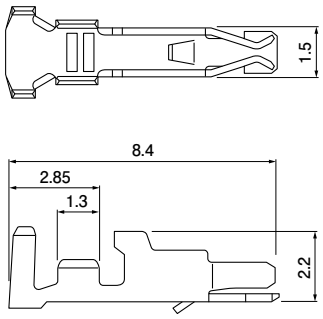
No. of circuits	Model No.		Dimensions(mm)		Q'ty/ reel
	Without a boss	With a boss	A	B	
2	SM02B-PASS-(*)	SM02B-PASS-1-(*)	2.0	8.0	1,000
3	SM03B-PASS-(*)	SM03B-PASS-1-(*)	4.0	10.0	1,000
4	SM04B-PASS-(*)	SM04B-PASS-1-(*)	6.0	12.0	1,000
5	SM05B-PASS-(*)	SM05B-PASS-1-(*)	8.0	14.0	1,000
6	SM06B-PASS-(*)	SM06B-PASS-1-(*)	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)

RoHS2 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
	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)

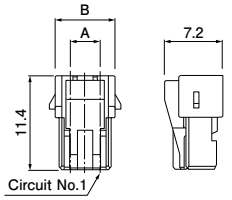
RoHS2 compliance

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

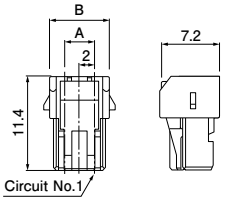
Note: Contact JST for fully automatic crimping applicator.

Housing

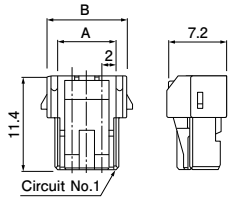
<2 circuits>



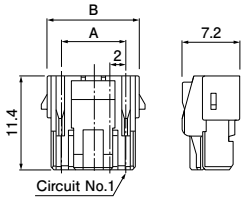
<3 circuits>



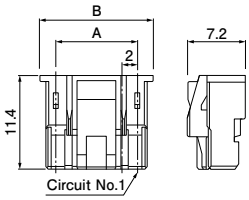
<4 circuits>



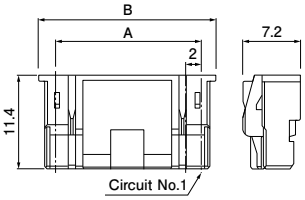
<5 circuits>



<6 to 9 circuits>



<10 to 13, 15 circuits>



No. of 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
11	**PARP-11V**	20.0	24.0	500
12	**PARP-12V**	22.0	26.0	500
13	**PARP-13V**	24.0	28.0	500
15	**PARP-15V**	28.0	32.0	500

Material and Finish

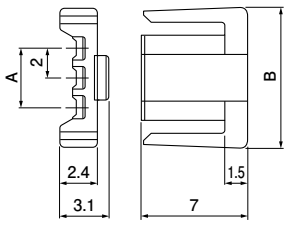
PA 66, UL94V-0, natural (white)

RoHS2 compliance

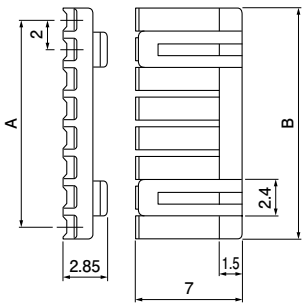
Note: Contact JST for Glow Wire compliant connectors.

Retainer

<2 to 5 circuits>



<6 to 13, 15 circuits>



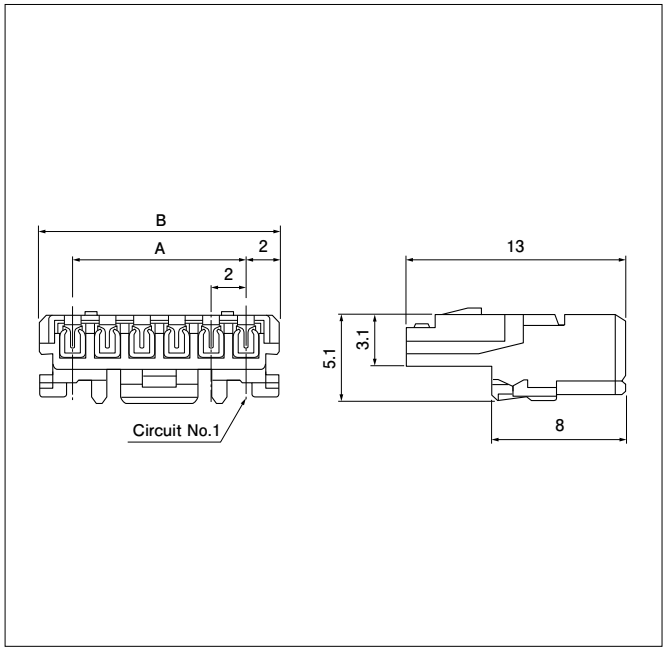
No. of circuits	Model No.	Dimensions (mm)		Q'ty/ bag
		A	B	
2	**PMS-02V-S**	2.0	7.3	1,000
3	**PMS-03V-S**	4.0	9.3	1,000
4	**PMS-04V-S**	6.0	11.3	1,000
5	**PMS-05V-S**	8.0	13.3	1,000
6	**PMS-06V-S**	10.0	11.55	1,000
7	**PMS-07V-S**	12.0	13.55	1,000
8	**PMS-08V-S**	14.0	15.55	1,000
9	**PMS-09V-S**	16.0	17.55	1,000
10	**PMS-10V-S**	18.0	19.55	1,000
11	**PMS-11V-S**	20.0	21.55	1,000
12	**PMS-12V-S**	22.0	23.55	1,000
13	**PMS-13V-S**	24.0	25.55	1,000
15	**PMS-15V-S**	28.0	29.55	1,000

Material and Finish

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

RoHS2 compliance

Receptacle

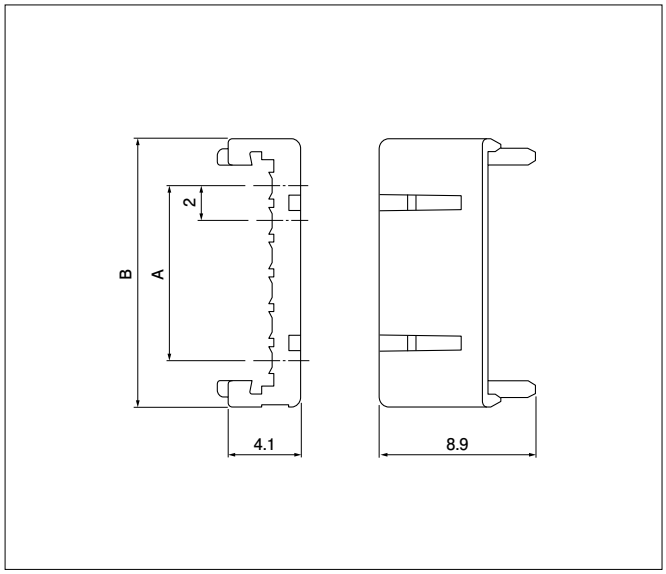


No. of circuits	Model No.	Dimensions (mm)		Q'ty/ box
		A	B	
2	**02PAF-6S**	2.0	6.0	1,000
3	**03PAF-6S**	4.0	8.0	1,000
4	**04PAF-6S**	6.0	10.0	500
5	**05PAF-6S**	8.0	12.0	500
6	**06PAF-6S**	10.0	14.0	500
7	**07PAF-6S**	12.0	16.0	500
8	**08PAF-6S**	14.0	18.0	250
9	**09PAF-6S**	16.0	20.0	250
10	**10PAF-6S**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

RoHS2 compliance
Note*: Unlisted in UL.

Retainer

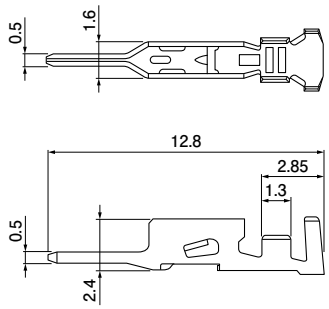


No. of circuits	Model No.	Dimensions (mm)		Q'ty/ bag
		A	B	
2	**PAFS-02V-S**	2.0	7.4	1,000
3	**PAFS-03V-S**	4.0	9.4	1,000
4	**PAFS-04V-S**	6.0	11.4	1,000
5	**PAFS-05V-S**	8.0	13.4	1,000
6	**PAFS-06V-S**	10.0	15.4	1,000
7	**PAFS-07V-S**	12.0	17.4	1,000
8	**PAFS-08V-S**	14.0	19.4	1,000
* 9	**PAFS-09V-S**	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 and Finish
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS2 compliance
Note*: Unlisted in UL.

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)

RoHS2 compliance

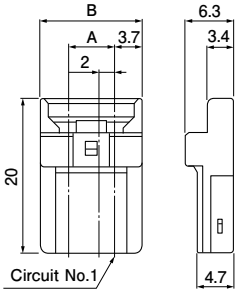
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPAL-001T-P0.5	AP-K2N	MKS-L	MK/SPAL-001-05	APLMK SPAL001-05
SPAL-002T-P0.5			MK/SPAL-002-05	APLMK SPAL002-05

Note: Contact JST for fully automatic crimping applicator.

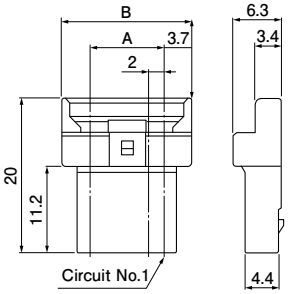
Housing

Without panel locks

<2 to 5 circuits>

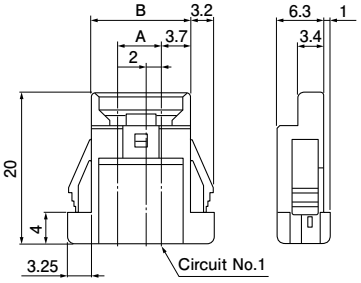


<6 to 8 circuits>

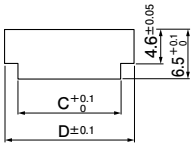


With panel locks

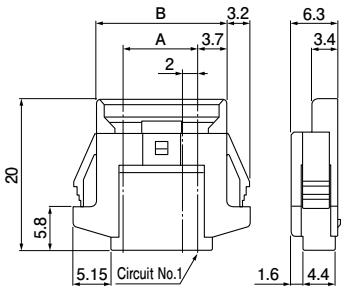
<2 to 4 circuits>



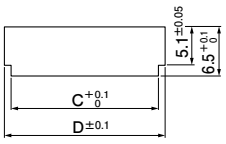
Panel layout



<6 to 8 circuits>



Panel layout



No. of 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 and Finish

PA 66, UL94V-0, natural (white)

RoHS2 compliance

No. of 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 and Finish

PA 66, UL94V-0, natural (white)

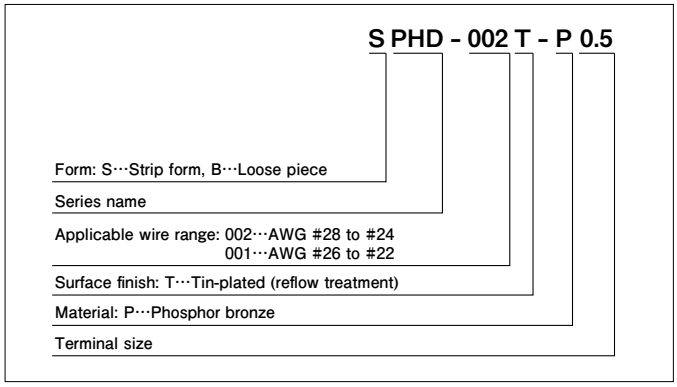
RoHS2 compliance

Retainer

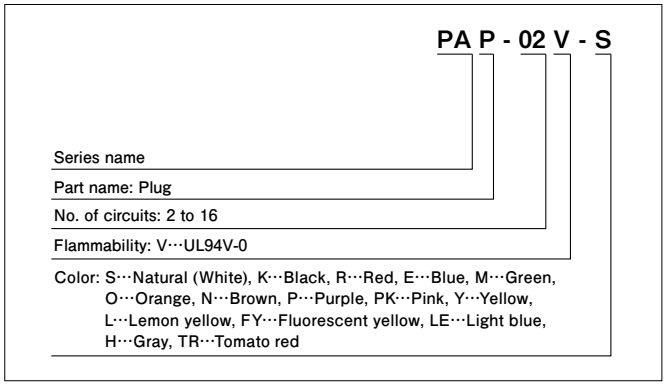
Retainers are interchangeable with those of the PA crimp style retainer mountable type.

Model number allocation

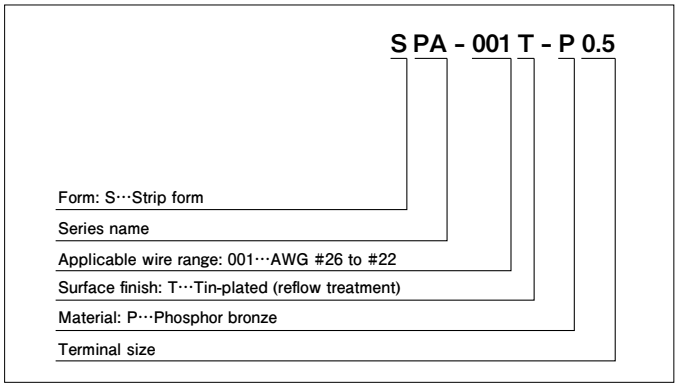
Contact (Standard type)



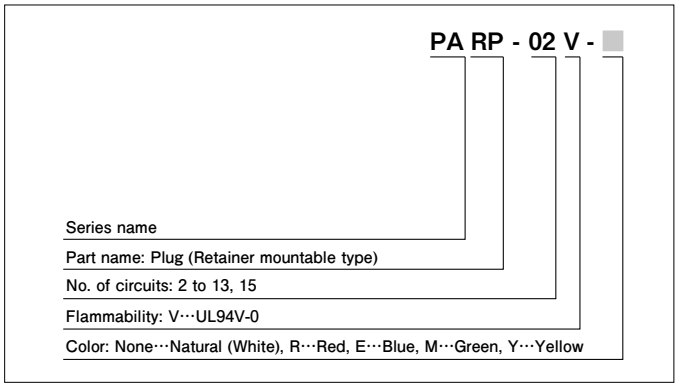
Housing (Standard type)



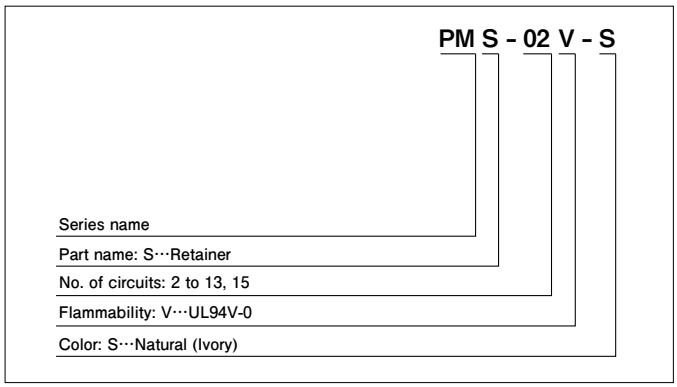
Contact (Retainer mountable type)



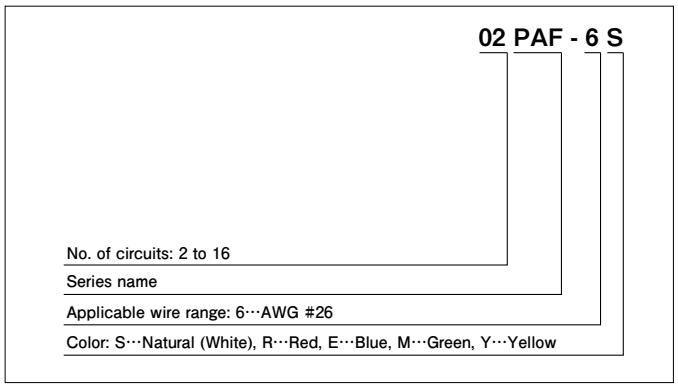
Housing (Retainer mountable type)



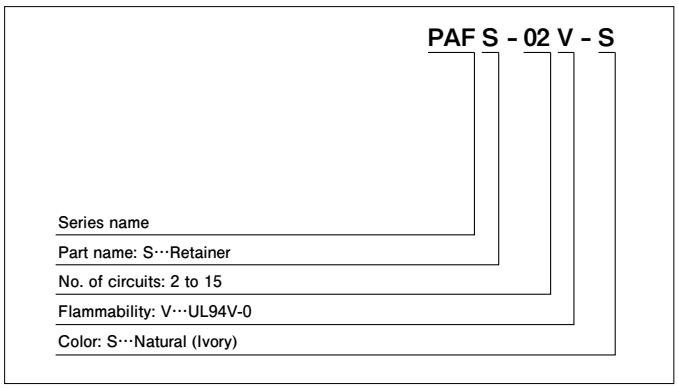
Retainer (Crimp style)



Socket (IDC style)



Retainer (IDC style)



Model number allocation

Header (Top entry type)

B 02 B - PA S K - □□

- Shape of assembled product: B···Top entry type
- No. of circuits: 2 to 16
- Part name: Header
- Series name
- Color: 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···Fluorescent yellow, LE···Light blue, H···Gray, TR···Tomato red
- Indication of clinch: K···Clinched, S···Straight pin
- Shape: None···Without boss, 1···With boss
- Resin material: None···Glass-filled PBT, A···PA 66

Header (Side entry type)

S 03 B - PA S K - 2

- Shape of assembled product: S···Side entry type
- No. of circuits: 2 to 16
- Part name: Header
- Series name
- Color: 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
- Indication of clinch: K···Clinched, S···Straight pin
- Shape: None···Without boss, 1···With boss, 2···With bosses on both sides

Header (Top entry type, N type)

B 02 B - PA S K - □ N

- Shape of assembled product: B···Top entry type
- No. of circuits: 2 to 16
- Part name: Header
- Series name
- Color: S···Natural
- Indication of clinch: K···Clinched, S···Straight pin
- Shape: None···Without boss, 1···With boss
- Resin material: N···Glass-filled PA 66

Header (Bottom type, Bottom type with extended length)

BE 05 B - PA S K - C

- Shape of assembled product: BE···Bottom type
- No. of circuits: Bottom type···5, 8, 11, 12; Bottom type with extended length···4 to 6
- Part name: Header
- Series name
- Color: S···Natural
- Indication of clinch: K···Clinched
- Shape: None···Bottom type, C···Bottom type with extended length

Header (High box type)

BH 02 B - PA S K - □

- Shape of assembled product: BH···Top entry type High box type
- No. of circuits: 2 to 12, 15
- Part name: Header
- Series name
- Color: S···Natural (White)
- Indication of clinch: K···Clinched
- Shape: None···Without boss, 1···With boss

Header (SMT type)

BM 02 B - PA S S - □ - TF

- Shape of assembled product: BM···SMT Top entry type, SM···SMT Side entry type
- No. of circuits: 2 to 13, 15
- Part name: Header
- Series name
- Color: S···Natural (Ivory)
- Indication of clinch: S···Straight pin
- Shape: None···Without boss, 1···With boss
- Packaging style: TF···Embossed-taping (Top entry type), TFT···With suction tape (Top entry type), TB···Embossed-taping (Side entry type), TBT···With suction tape (Side entry type)

Pin contact for wire to wire

S PAL - 001 T - P 0.5

- Form: S···Strip form
- Series name
- Applicable wire range: 001···AWG #26 to #22, 002···AWG #28 to #24
- Surface finish: T···Tin-plated (reflow treatment)
- Material: P···Phosphor bronze
- Terminal size

Receptacle housing for wire-to-wire

PAL R - 02 V □ - □

- Series name
- Part name: R···Receptacle
- No. of circuits: Without panel lock···2 to 8, With panel lock···2 to 4, 6 to 8
- Flammability: V···UL94V-0
- With/Without panel lock: None···With panel lock, F···Without panel lock
- Color: None···Natural (White), R···Red, E···Blue, M···Green, Y···Yellow