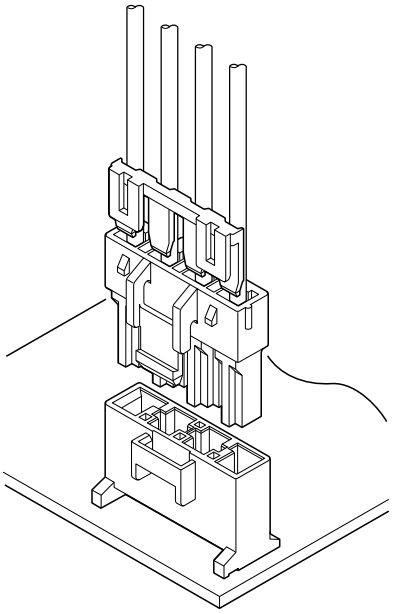


VYH CONNECTOR

6.5 mm pitch/Disconnectable Crimp style connectors



This VYH connector is designed for wire-to-board 6.5 mm pitch connector corresponding to large current. Retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safely.

- **Large current capability**
- **Misinsertion prevention**
- **Housing lance for contact retention**
- **Retainer**

Specifications

- Current rating: 15 A AC/DC (2 circuits/ AWG #14)
- Voltage rating: 300 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: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #26 to #14
- Applicable PC board thickness: 1.6 mm

※ The following table shows the rated current when applying current for all circuits in each combination of the number of circuits and the wire to be used.

Unit:A

No. of circuits	Wire size (AWG)						
	#14	#16	#18	#20	#22	#24	#26
2	15	10	7	5	4	3	2
3	14	9	6	4	4	3	2
4	13	9	6	4	4	3	2
6	12	8	5	3	3	2	2

Notes on parallel branching current :
Do not branch to the multiple circuits in parallel current which is exceeds the rated current, as it may cause problems such as imbalance when applying current.
If it is unavoidable that branch in parallel is necessary, design the circuits while suppressing the unbalanced current and proving the sufficient margin to the rated current.

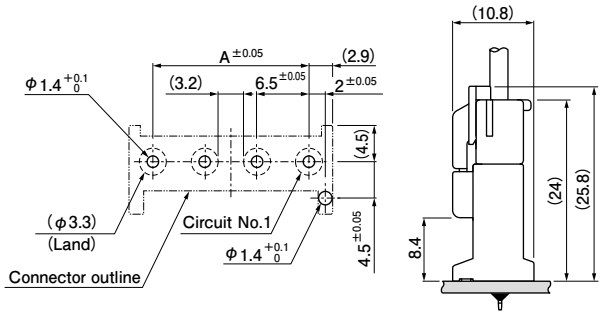
* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
* RoHS2 compliance
* Dimensional unit: mm
* Contact JST for details.

Standards

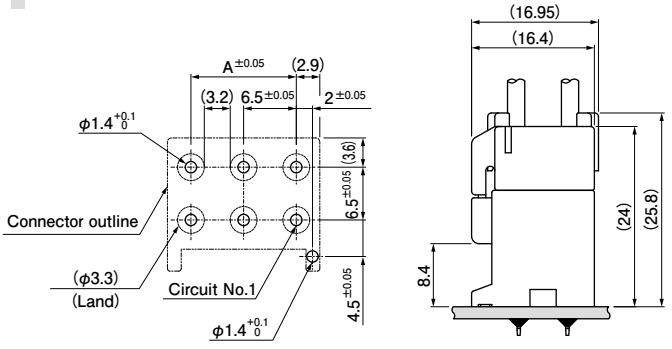
- Recognized E60389
- Certified LR70035705
- R50036139

PC board layout and Assembly layout

Single-row type



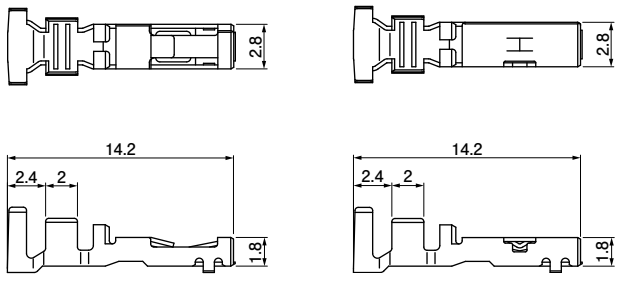
Dual-row type



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. The dimensions above should serve as guideline. Contact JST for details.

Contact

SVYF type
*Marked product: Unlisted in TÜV.



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG#		
SYF-01T-P0.5A	0.13 to 0.5	26 to 20	1.3 to 2.5	4,000
SYF-41T-P0.5A	0.5 to 1.25	20 to 16	2.0 to 3.4	4,000
SYF-61T-P0.5A	0.75 to 2.0	18 to 14	2.1 to 3.4	2,000
*SVYF-41T-P0.5A-13.5	0.5 to 1.25	20 to 16	2.0 to 3.4	3,000
*SVYF-61T-P0.5A	0.75 to 2.0	18 to 14	2.1 to 3.6	2,000

Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS2 compliance

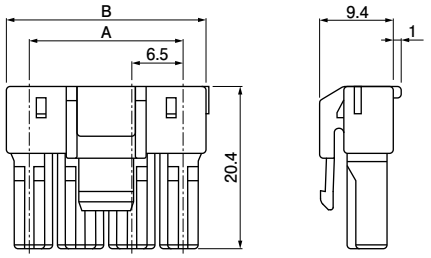
Note: 1. SVYF type contact was developed only for VYH connector in order to improve the prevention of prying.
2. Retainer cannot be used when using 41 type contact AWG#16 and 61 type contact.

Contact	Crimping machine	アプリケータ		
		Crimp applicator	Dies	Crimp applicator with dies
SYF-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
SYF-41T-P0.5A			MK/SYF/M-41-05	APLMK SYF/M41-05
SYF-61T-P0.5A			MK/SYF/M-61-05	APLMK SYF/M61-05
SVYF-41T-P0.5A-13.5			MK/SVYF-41-05-13.5	APLMK SVYF41-05-13.5
SVYF-61T-P0.5A			MK/SYF/M-61-05	APLMK SYF/M61-05

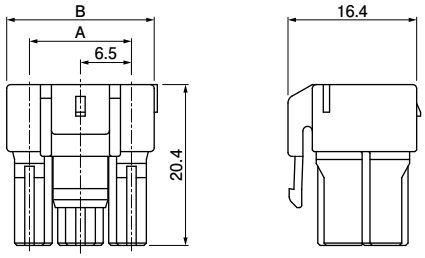
Note: Contact JST for fully automatic crimping applicator.

Housing

Single-row type



Dual-row type



Type	No. of circuits	Model No.	Dimensions (mm)		Q'ty/ bag
			A	B	
Single-row type	2	VYHP-02V	6.5	12.3	400
	3	VYHP-03V	13.0	18.8	300
	4	VYHP-04V	19.5	25.3	200
Dual-row type	4	VYHP-04VD	6.5	12.3	200
	6	VYHP-06VD	13.0	18.8	150

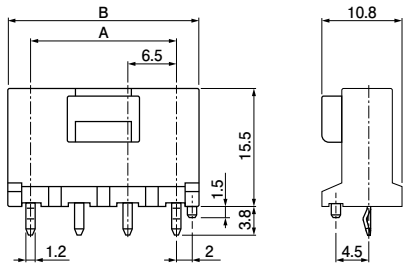
Material and Finish
PA 66, UL94V-0, natural (white)

RoHS2 compliance

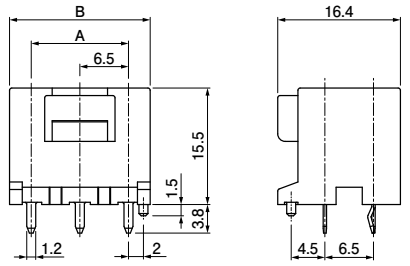
VYH CONNECTOR

Header

Single-row type



Dual-row type



Type	No. of circuits	Model No.	Dimensions (mm)		Q'ty/ box
			A	B	
Single-row type	2	**B02B-VYHSK-1**	6.5	12.3	600
	3	**B03B-VYHSK-1**	13.0	18.8	360
	4	**B04B-VYHSK-1**	19.5	25.3	300
Dual-row type	4	**B04B-VYHSK-D-1**	6.5	12.3	300
	6	**B06B-VYHSK-D-1**	13.0	18.8	180

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

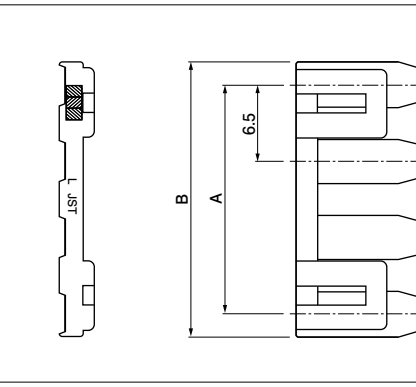
RoHS2 compliance This product displays (LF)(SN) on a label.

Type	No. of circuits	Model No.	Dimensions (mm)		Q'ty/ box
			A	B	
Single-row type	2	**B02B-VYHSK-M-1**	6.5	12.3	600
	3	**B03B-VYHSK-M-1**	13.0	18.8	360
	4	**B04B-VYHSK-M-1**	19.5	25.3	300
Dual-row type	4	**B04B-VYHSK-DM-1**	6.5	12.3	300
	6	**B06B-VYHSK-DM-1**	13.0	18.8	180

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

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

Retainer



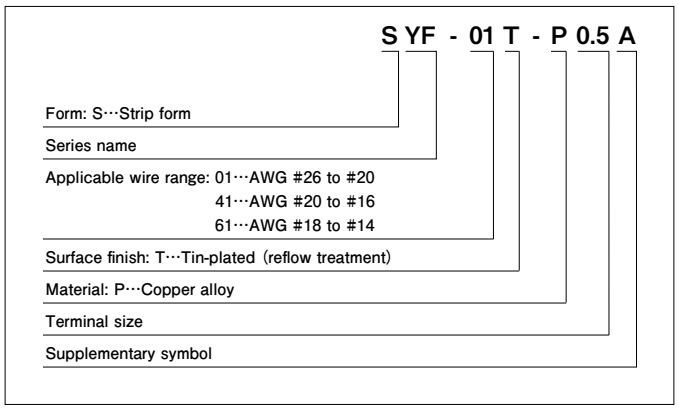
No. of circuits	Model No.	Dimensions (mm)		Q'ty/ bag
		A	B	
2	**VYHS-02V-S**	6.5	10.3	4,000
3	**VYHS-03V-S**	13.0	16.8	3,000
4	**VYHS-04V-S**	19.5	23.3	2,000

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

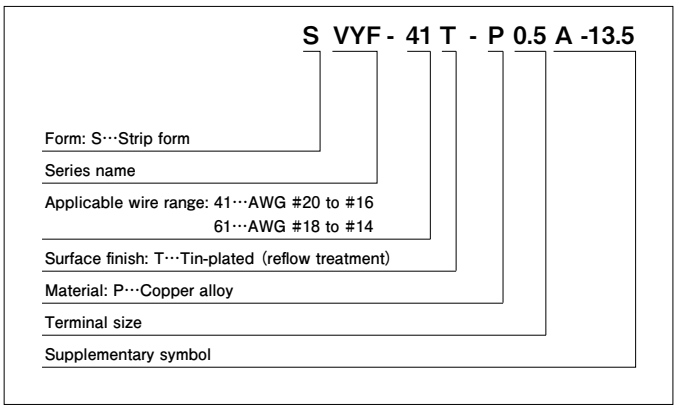
RoHS2 compliance
Note: Unlisted in TÜV.

Model number allocation

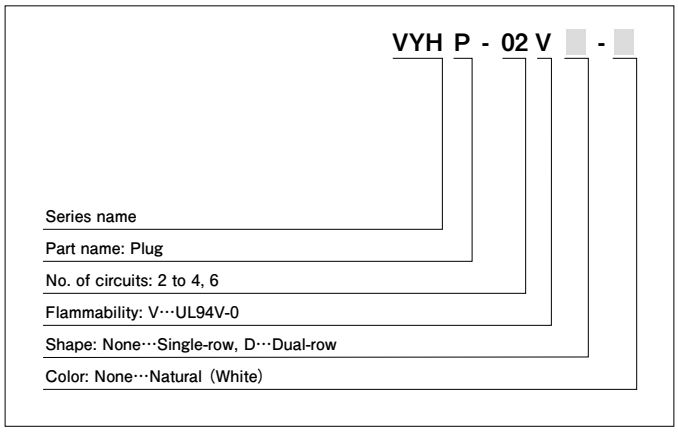
Contact



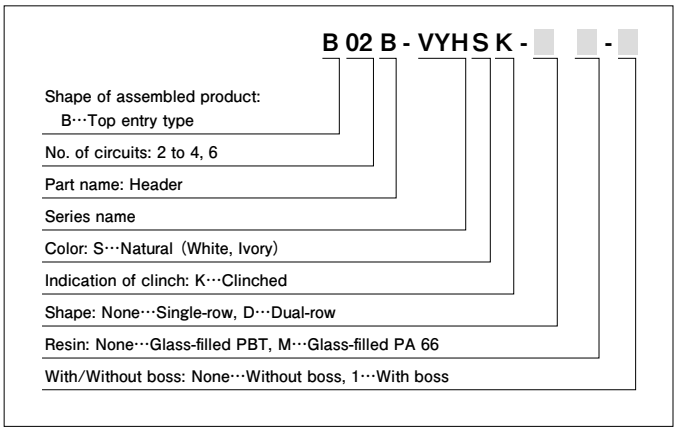
Contact (SVYF type)



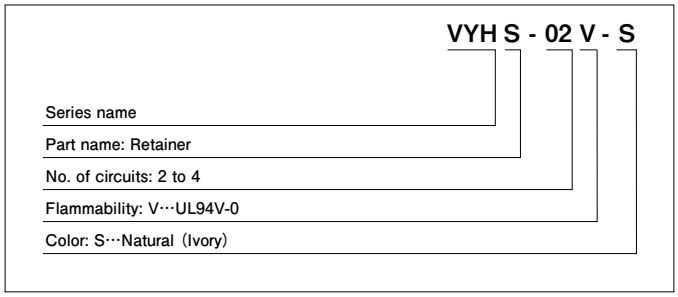
Housing



Header



Retainer



Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

JST:

BH03B-XASK-BN(LF)(SN) BS12P-SHF-1AA S05B-F32SK-GGXR B02B-PASK B3PS-VH (LF) 03CSR-8PK B26B-J11DK-GWXR(LF) F31FMS-06V-KXX FLVDDF2-187A-8 S07B-XASK-1 ACHR-04V-A-S B2B-ZR-SM4-TFT BM03B-PASS-TFT(LF)(SN) BVM-61T-P2.0 SM06B-PASS-TBT SPND-001T-C0.5 WE2.5-10 J11DF-20V-KX S10B-PADSS-1 S03B-F32SK-GGYR SHR-02V-S-B B5B-PH-K-Y(LF)(SN) BU18P-TZ-S(LF)(SN) FVP-1.25(PA)(LF) S34B-PHDSS-B(LF)(SN) SYR-02T FVWSPC-2 SM20B-NSHDZS-TF B08P-VL B32B-PHDSS-B