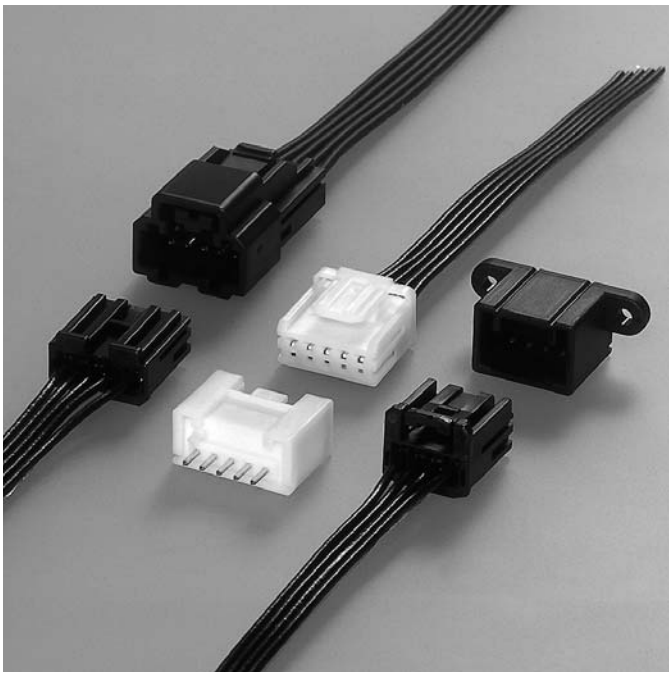
HCM CONNECTOR

Board-to-wire/Wire-to-wire



0.64 unsealed, low profile, miniaturized connectors for automobile applications.
Meets or exceeds the major performance specifications for automotive electrical connector systems.

Features

●Miniaturized Connectors, Compliant with the Automotive Performance Specifications

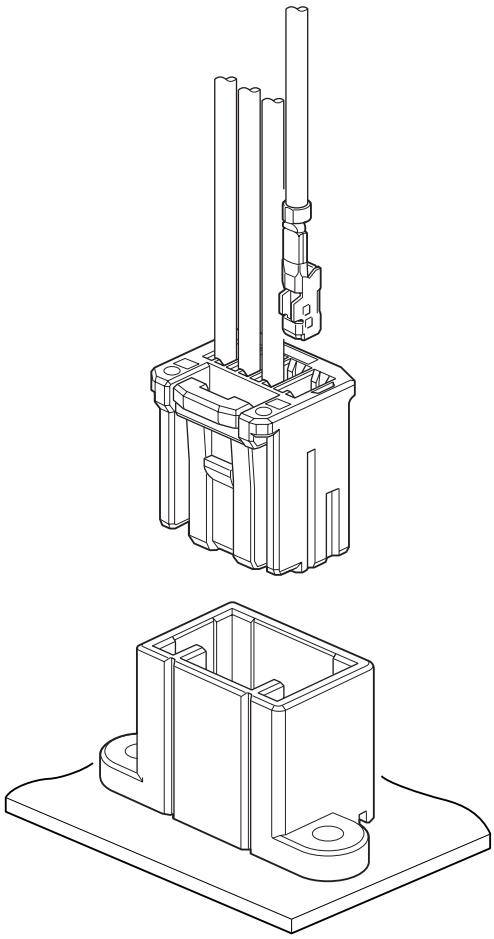
●Boxed Female Terminal with Triple Over-stress Protection Mechanism

●Accept 0.64 or 1.0 mm Male Blade

●Optional Connector Position Assurance (CPA) Design

●Terminal Independent Secondary Lock

●Variations
Multiple circuits sizes and circuit board locking mechanisms available to suit your needs.

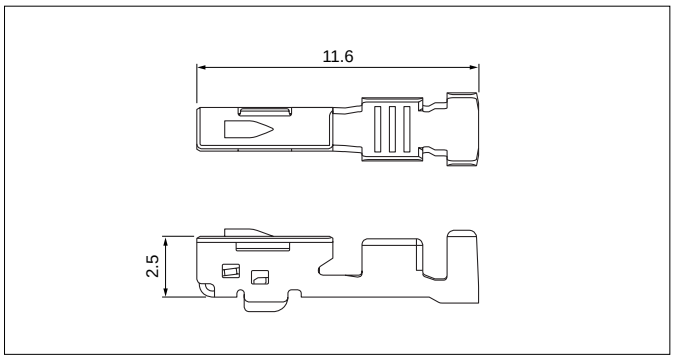


Specifications

- Current rating: 5 A DC
- Voltage rating: 14 V DC
- Temperature range: –40°C to +100°C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
  After environmental tests/ 20 mΩ max.
- Insulation resistance: 20 MΩ min.
- Applicable wire: SAE/ AVSS/ CAVS
  0.3 mm^2 to 0.5 mm^2
  : UL Cable
  0.21 mm^2

∗ Compliant with ELV/RoHS.
∗ Contact JST for details.

Female terminal



Model No.	Applicable wire range		Q'ty/reel
	Conductor (mm^2)	Insulation O.D. (mm)	
SHCM-A03T-P025	0.3 to 0.5	1.4 to 1.9	5,000
SHCM-A04T-P025	0.21	1.5	5,000

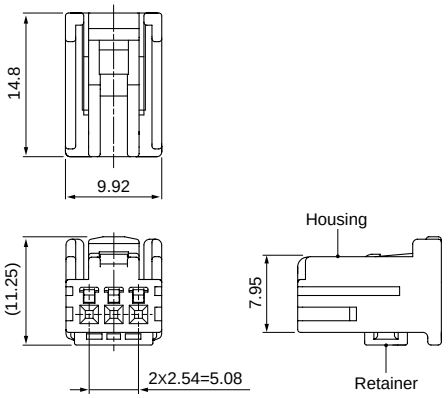
Material and Finish
Copper alloy, tin-plated

Female connector

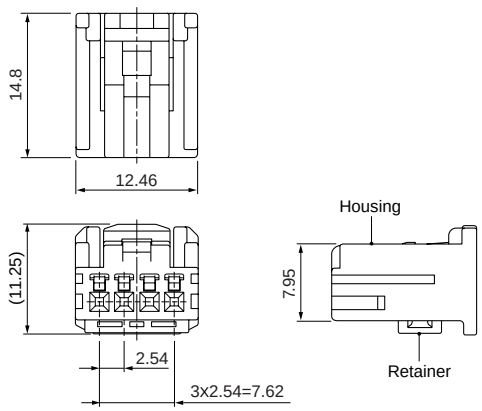
Single row

Inner lock type

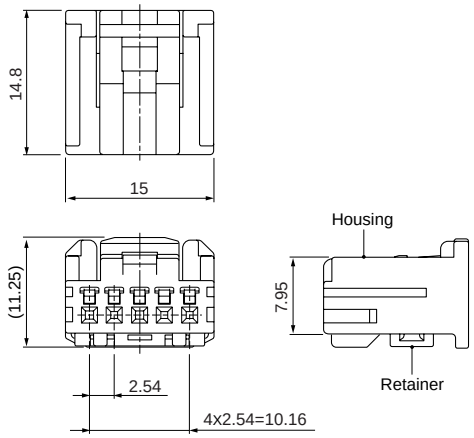
● 3 circuits



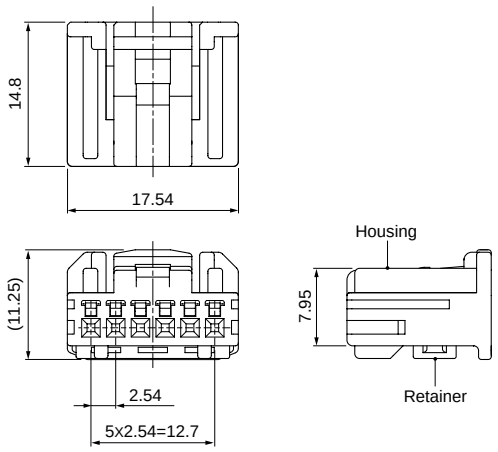
● 4 circuits



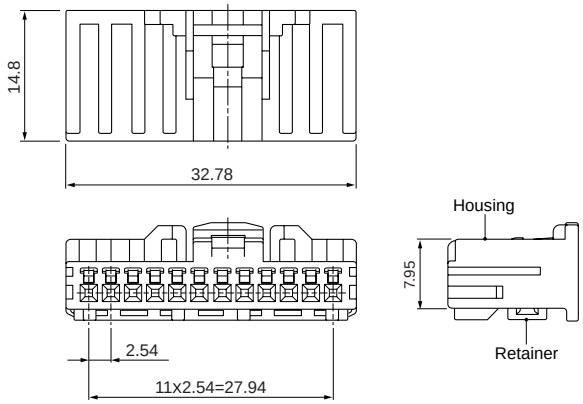
● 5 circuits



● 6 circuits



● 12 circuits

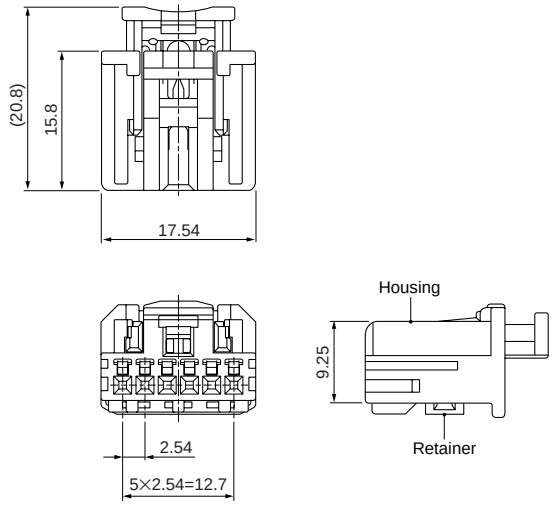


Female connector

Single row

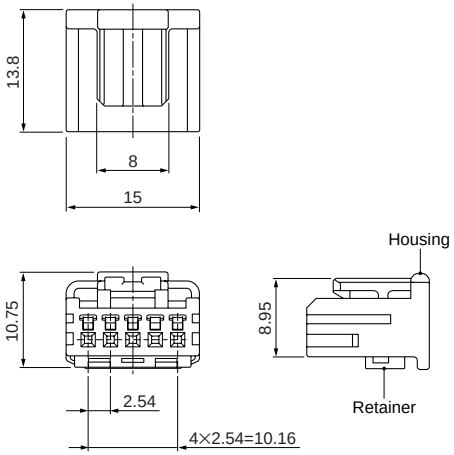
Inner lock type

● **6 circuits (W/CPA type)**



Outer lock type

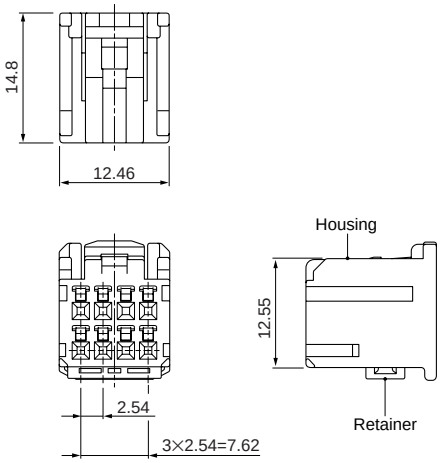
● **5 circuits**



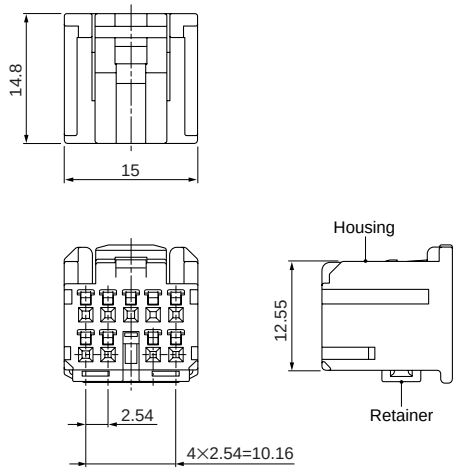
Dual row

Inner lock type

● **8 circuits**



● **9 circuits**



Single row

Type	Circuits	Model No.	Q'ty/box	Housing Color
Inner lock	3	**HCMPB-03-K**	800	Black
		HCMPB-03-S	800	White
	4	**HCMPB-04-K**	600	Black
		HCMPB-04-H	600	Gray
		HCMPB-04-S	600	Natural (White)
	5	**HCMPB-A05-K**	8,000	Black
		HCMPB-A05-S	500	Natural (White)
	6	**HCMPB-06-K**	400	Black
		HCMPB-06-S	400	Natural (White)
	12	**HCMPB-12-K**	200	Black
	∗12	**HCMPB-A12-K**	200	Black
Inner lock (W/CPA)	6	**HCMPB-C06A-K**	4,500	Black
		HCMPB-C06A-S	4,500	Natural (White)
Outer lock	5	**HCMPB-05-K**	500	Black
		HCMPB-05-S	500	Natural (White)

Material and Finish
Housing: PBT Retainer: PBT, Blue CPA (Only for 6 circuits with CPA): Glass-filled PBT, Red

∗Additional keying

Dual row

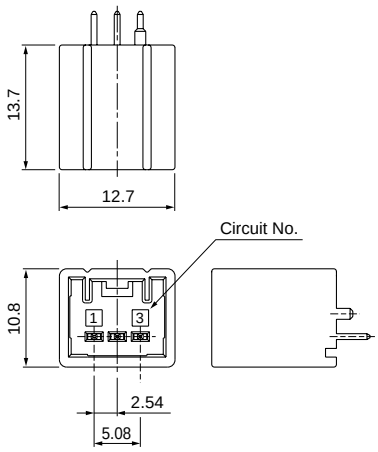
Circuits	Model No.	Q'ty/box	Housing Color
8	**HCMDPB-08-K**	400	Black
	HCMDPB-08-S	400	Natural (White)
9	**HCMDPB-09-K**	400	Black

Material and Finish
Housing: PBT Retainer: PBT, Blue

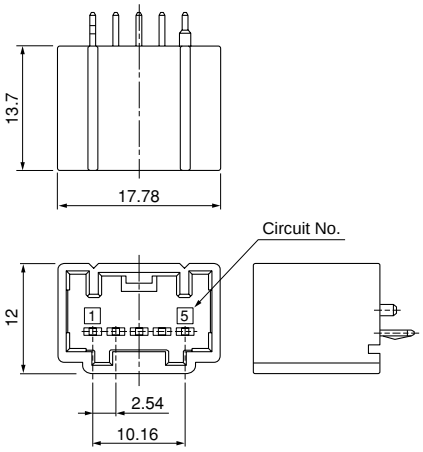
Male connector (Top entry type)

Inner lock type

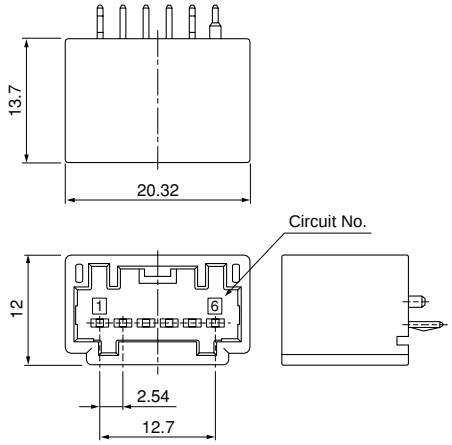
● 3 circuits



● 5 circuits

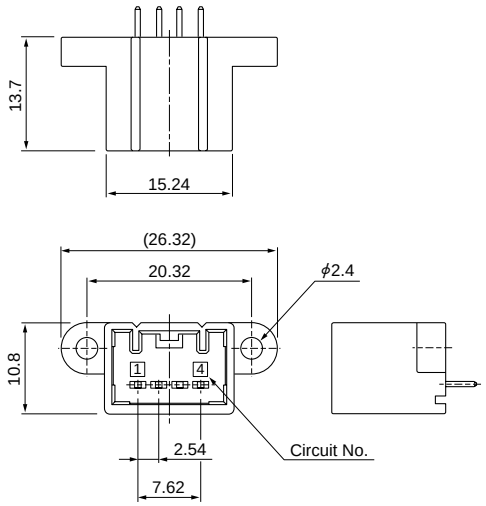


● 6 circuits

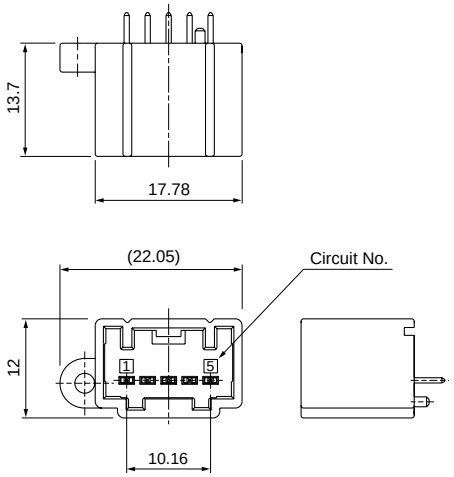


Screw hole

● 4 circuits

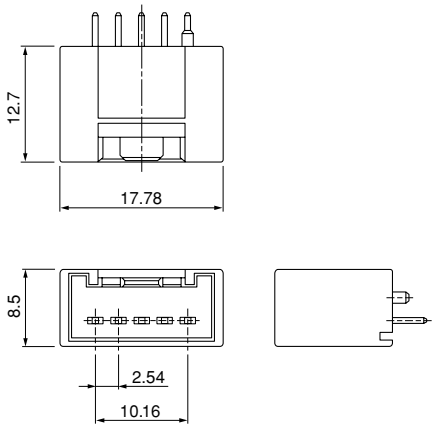


● 5 circuits



Outer lock type

● 5 circuits



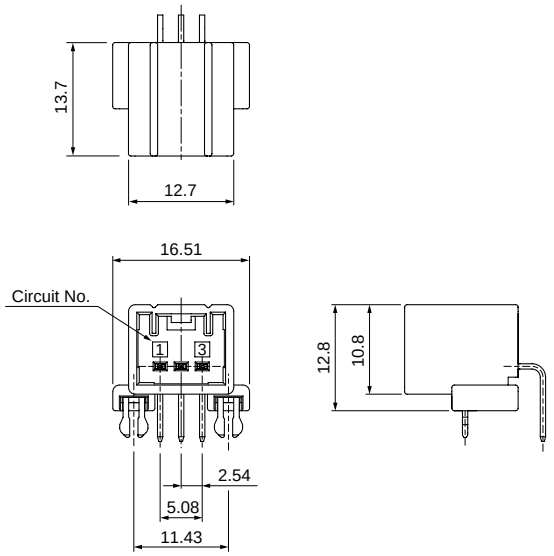
Type	Circuits	Model No.	Q'ty/box	Housing Color
Inner lock	3	**B03B-HCMKS**	480	Black
		B03B-HCMSS	480	Natural (White)
	5	**B05B-AHCMKK**	288	Black
		B05B-AHCMSK	288	Natural (White)
	6	**B06B-HCMKK**	240	Black
		B06B-HCMSK	240	Natural (White)
Inner lock (Screw hole)	4	**B04B-HCMKS-R**	240	Black
		B04B-HCMKS-RA	240	Black
		B04B-HCMKS-2R	240	Black
	5	**B05B2-AHCMKS-A**	270	Black
Outer lock	5	**B05B-HCMKS-R**	432	Black
		B05B-HCMSS-R	432	Natural (White)

Material and Finish
Housing: Glass-filled PBT Pin: Brass, tin-plated

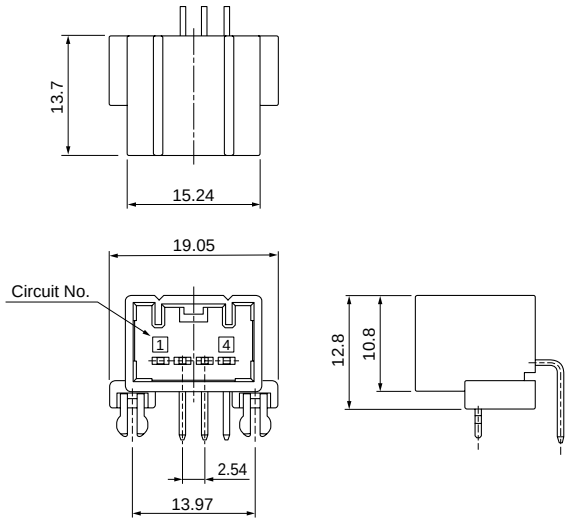
Male connector (Side entry type)

Reinforcement type

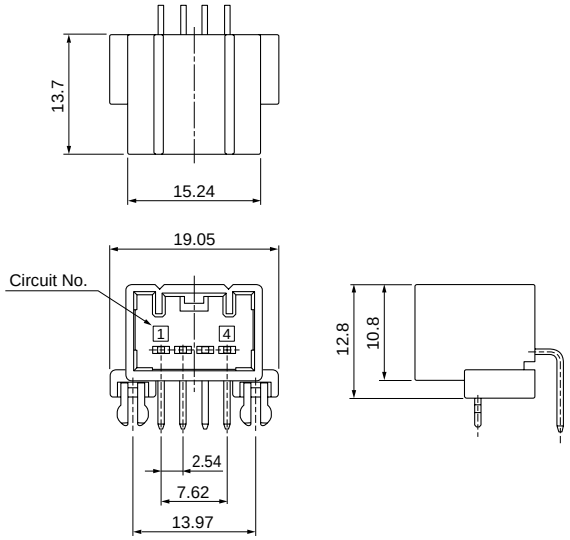
● **3 circuits (S03B1-HCMKS)**



● **3 circuits (S04B1A-HCMKS)**



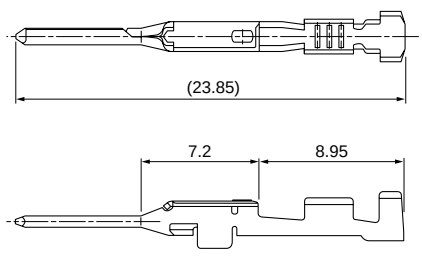
● **4 circuits**



Circuits	Model No.	Q'ty/box	Housing Color
3	**S03B1-HCMKS**	180	Black
	S04B1A-HCMKS	165	Black
4	**S04B1-HCMKS**	165	Black
	S04B1-HCMSS	165	Natural (White)

Material and Finish
Housing: Glass-filled PBT Pin: Brass, tin-plated

Male terminal

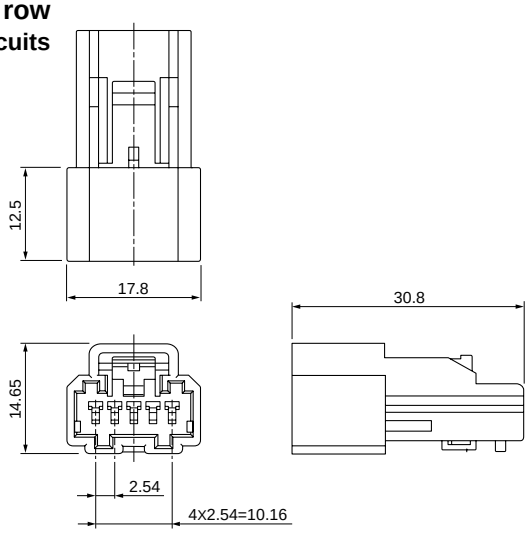


Model No.	Applicable wire range		Q'ty/reel
	Conductor (mm^2)	Insulation O.D. (mm)	
SHCMW-A03T-040	0.3 to 0.5	≤1.9	5,000

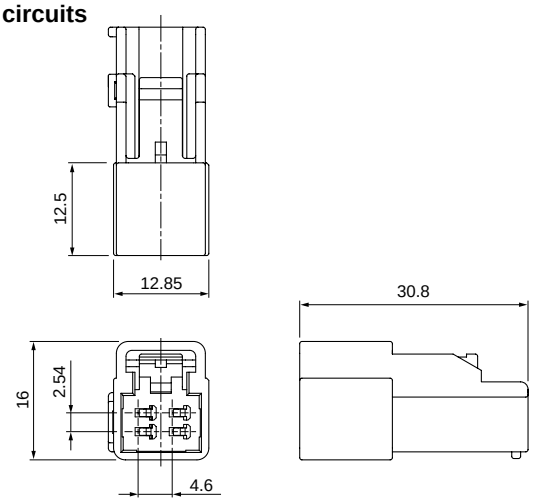
Material and Finish
Brass, tin-plated (reflow treatment)

Male connector (Wire-to-wire)

Single row
● 5 circuits



Dual row
● 4 circuits

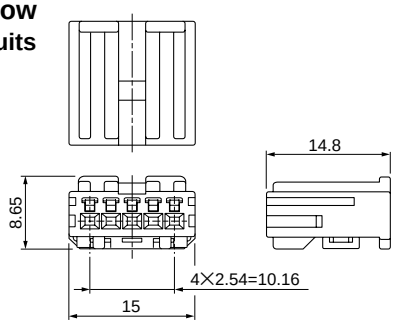


Type	Circuits	Model No.	Q'ty/box	Housing Color
Single row	5	**HCMWSB-05-K**	200	Black
Dual row	4	**HCMDWSB-04-S**	250	Natural (White)

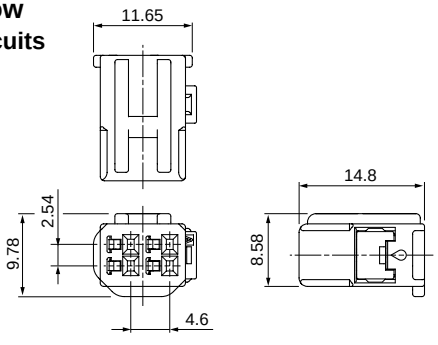
Material and Finish
Housing: PBT Retainer: PBT, Blue

Female connector

Single row
● 5 circuits



Dual row
● 4 circuits



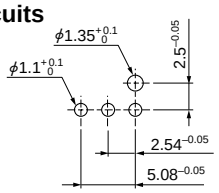
Type	Circuits	Model No.	Q'ty/box	Housing Color
Single row	5	**HCMWPB-05-K**	500	Black
Dual row	4	**HCMDWPB-04-S**	13,000	Natural (White)
		HCMDWPB-04-K	13,000	Black

Material and Finish
Housing: PBT Retainer: PBT, Blue

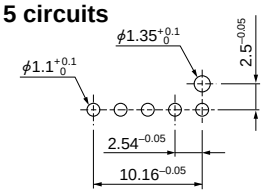
PC board layout

Top entry type

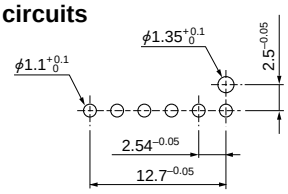
● 3 circuits



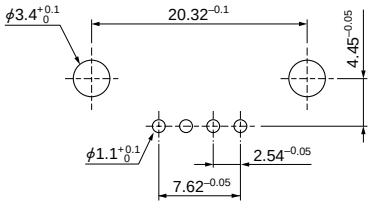
● 5 circuits



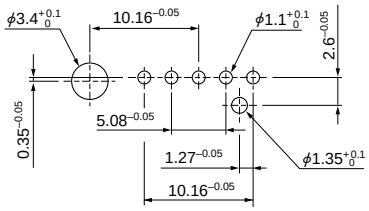
● 6 circuits



● 4 circuits (with screw hole)

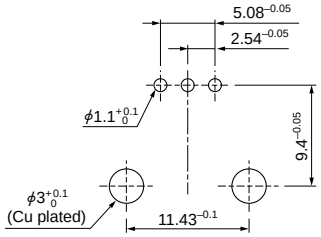


● 5 circuits (with screw hole)

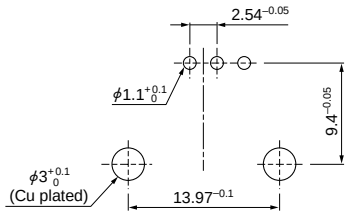


Side entry type (with reinforcement)

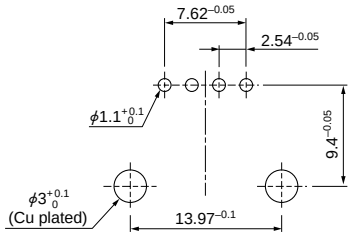
● 3 circuits



● 3 circuits (with 4 circuits housing)



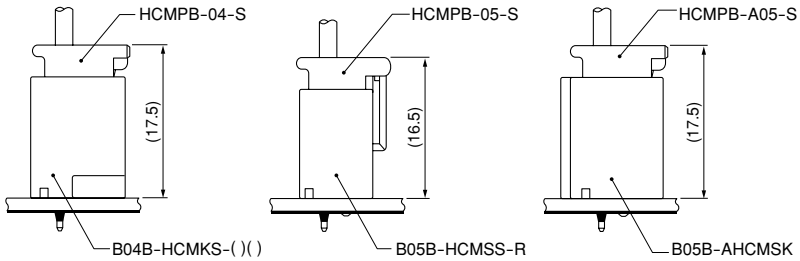
● 4 circuits



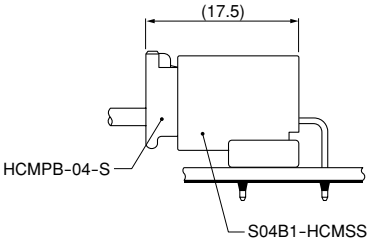
Note: 1. Tolerances are non-cumulative.
2. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as guideline. Contact JST for details.

Assembly layout

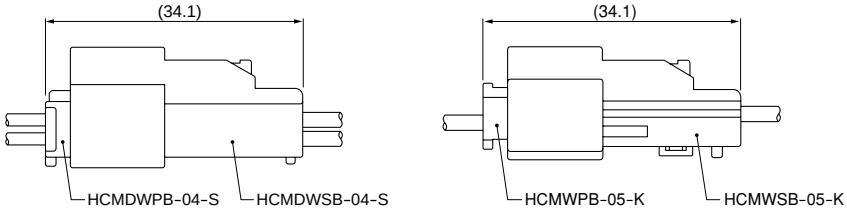
Top entry type



Side entry type



Wire-to-wire type



Crimping machine, Applicator

Strip terminal	Crimping machine	Crimp applicator MKS-L	
		Dies	Crimp applicator with dies
SHCM-A03T-P025	AP-K2N	MK/SHCM-A03-025	APL MK SHCM-A03-025
SHCM-A04T-P025		MK/SHCM-A04-025	APL MK SHCM-A04-025
SHCMW-A03T-040		MK/SHCMW-A03-040	APL MK SHCMW-A03-040

Note: When crimping operation is conducted using an applicator and die set other than the above, JST cannot guarantee the performance of the terminal.

Unikeyic Electronics

Global Electronic Components Distributor

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

JST:

BM02B-NSHSS-TBT (LF)(SN) SMP-10V-NC SMR-10V-N XMR-02V BM24B-ZPDSS-TF (LF)(SN) RF-H102TD-1130 SFKR-02V-S SRC-51T-M4 XARP-05V 04P-SJN PUDP-34V-S S02B-XASS-1 SJ2M-01GF-M1.0N VLS-03V BM02B-NSHSS-TBT PAP-16V-S PSIP-10V-LE SJWPST-21T-M1.0N SM08B-NSHSS-TB(LF)(SN) SMR-02V-B XMS-03V 8P-SAN HLP-03V CZHR-14V-S WC-491 XADRP-18V SM09B-ZESS-TB (LF)(SN) 04JQ-BT ELR-04V S7B-PH-K-S(LF)(SN)