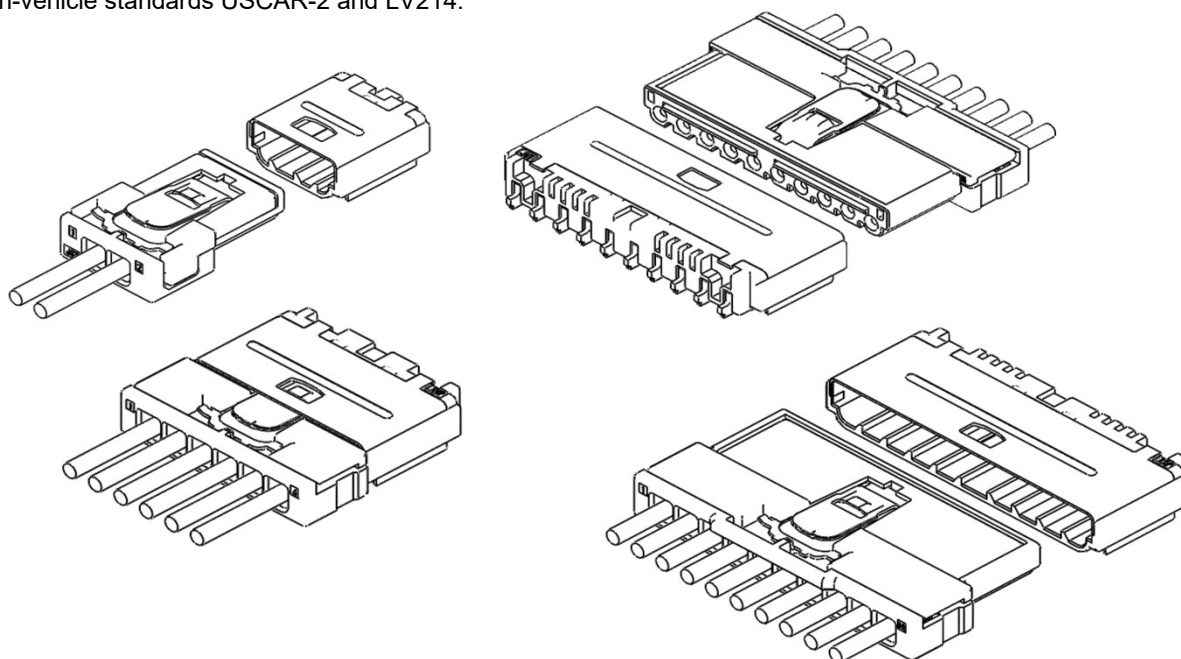


ULH CONNECTOR

Board-to-wire



This SMT connector that achieves the world's smallest class connector height of 3.5 mm as a crimp terminal while having performance that meets the in-vehicle standards USCAR-2 and LV214.



■ Features

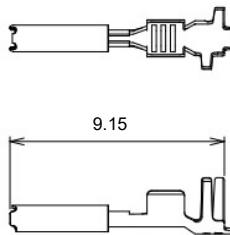
- Conforming the Automotive Standards; USCAR-2 and LV214
- Low Height and Short Mating Length despite crimped specification
Height: 3.5mm, Mating Length: 14.1mm
- Space-saving Design
- Maintains electrical and mechanical properties even at temperatures up to 125°C
- UL94 V-0, Halogen-free

■ Specifications

Item	Standard	Condition
● Current rating	5A AC·DC	Wire for more than 125°C· Applying AWG#22, All circuits
● Operating voltage	100V AC·DC	IEC60664-1, Pollution degree2
● Temperature range	−40°C ~ +125°C	Including temperature rise in applying
● Applicable wire	AWG#22	Coating OD: Φ1.5mm max
● Frame resistance	V-0	UL94
● Contact resistance	Initial 10mΩ max	DC 100mA
● Insulation resistance	100MΩ min	DC 500V
● Withstand voltage	No dielectric breakdown	AC 1,000V / min.
● Vibration resistance	After endurance 15mΩ max	LV214 PG17 Severity 2 USCAR-2 V2(10G)
● Heat resistance	After endurance 15mΩ max	Under 125°C, Abandoned for 3,000 hours
● Locking force	110N min	In case pulling to mating direct
● Halogen	Halogen-free	Meet the definition based on IEC61249-2-21

*Compliant with ELV/RoHS2.

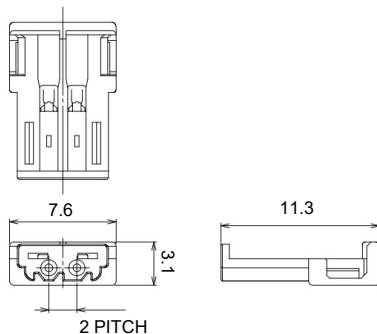
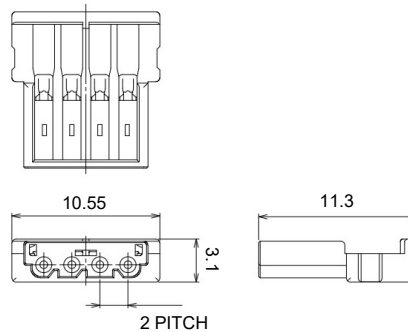
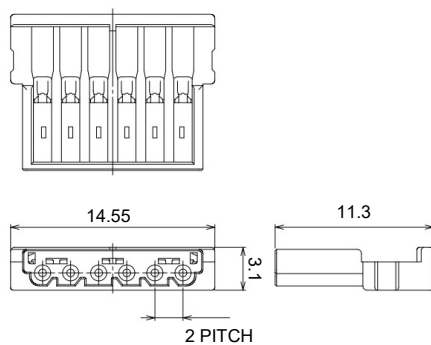
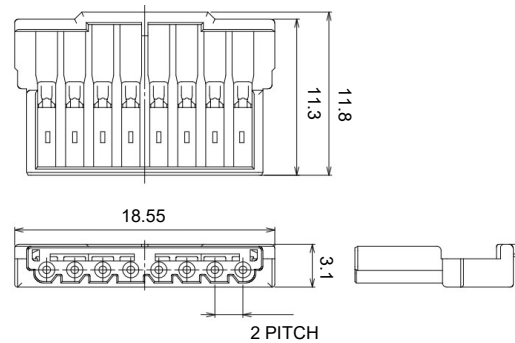
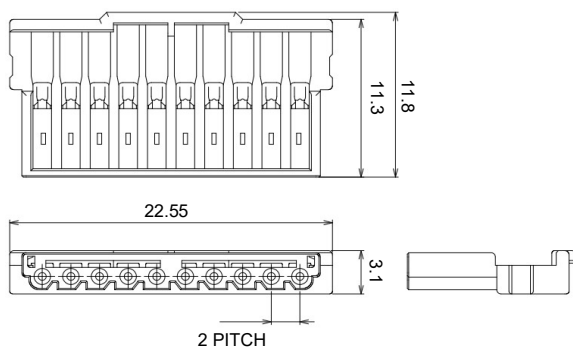
*If you have any question, please contact JST.

Female terminal


Size	Model No.	Applicable wire size		Q'ty/Reel
		Conductor (mm ²)	Insulation O.D. (mm)	
M	① SULH-A021GF-0.5	0.35	1.5 MAX	9,000
	② SULH-A021T-0.5			

Material and Finish

- ① Copper alloy, Nickel-undercoated, Contact area; Gold-plated
Barrel area; Tin-plated (Reflow treatment)
② Copper alloy, Tin-plated (Reflow treatment)

Female connector
● 2 circuits

● 4 circuits

● 6 circuits

● 8 circuits

● 10 circuits


Circuits	Model No.	Q'ty/box
2	ULHRR-02V-1A1-K(HF)	20,000
4	ULHRR-04V-1A1-K(HF)	18,000
6	ULHRR-06V-1A1-K(HF)	16,000
8	ULHRR-08V-1A1-K(HF)	14,000
10	ULHRR-10V-1A1-K(HF)	12,000

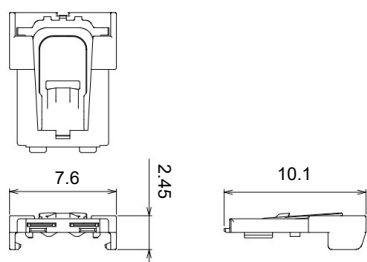
Material and Finish

Housing: Poly-amide, UL94V-0, Halogen-free, Black

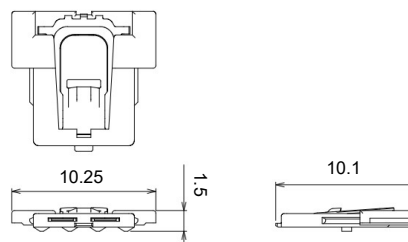
Note: Color/Key codes other than above-mentioned housing are also available.
Contact JST for details.

Female cover

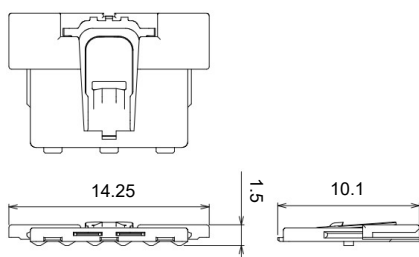
● 2 circuits



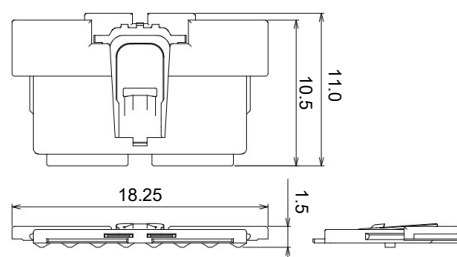
● 4 circuits



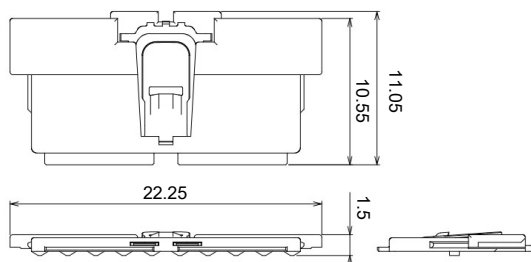
● 6 circuits



● 8 circuits



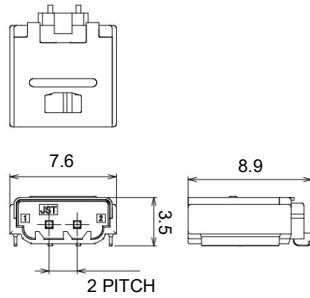
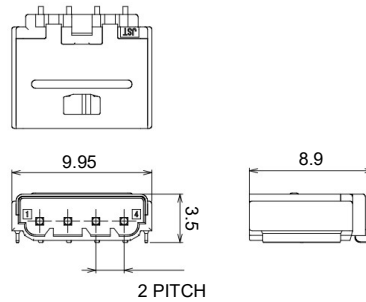
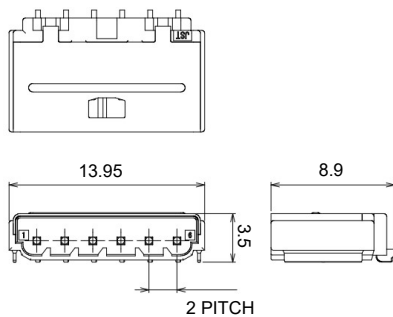
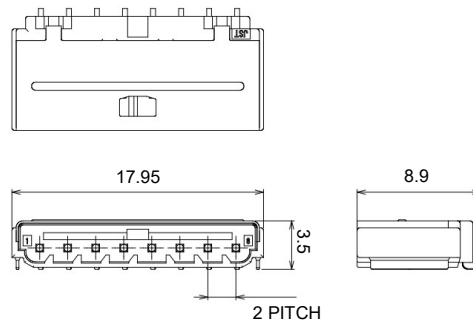
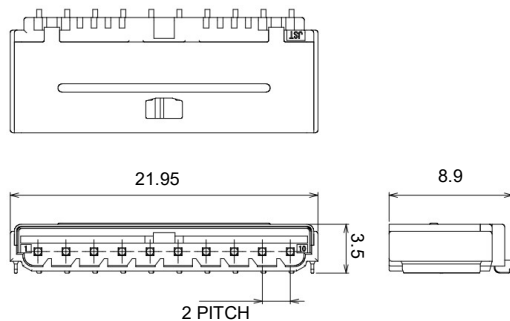
● 10 circuits



Circuits	Model No.	Q'ty/box
2	ULHCB-02V-A-K(HF)	3,712
4	ULHCB-04V-A-K(HF)	2,784
6	ULHCB-06V-A-K(HF)	2,784
8	ULHCB-08V-A-K(HF)	1,856
10	ULHCB-10V-A-K(HF)	1,856

Material and Finish

Housing: Poly-amide, UL94V-0, Halogen-free, Black
Metal lock: Stainless

Male connector
● 2 circuits

● 4 circuits

● 6 circuits

● 8 circuits

● 10 circuits


Plating	Circuits	Model No.	Q'ty/Box
Au	2	SM02B-ULHK-1GFA1-ETB(HF)	15,300
	4	SM04B-ULHK-1GFA1-ETB(HF)	10,200
	6	SM06B-ULHK-1GFA1-ETB(HF)	10,200
	8	SM08B-ULHK-1GFA1-ETB(HF)	8,500
	10	SM10B-ULHK-1GFA1-ETB(HF)	8,500
Sn	2	SM02B-ULHK-1TA1-ETB(HF)	15,300
	4	SM04B-ULHK-1TA1-ETB(HF)	10,200
	6	SM06B-ULHK-1TA1-ETB(HF)	10,200
	8	SM08B-ULHK-1TA1-ETB(HF)	8,500
	10	SM10B-ULHK-1TA1-ETB(HF)	8,500

Material and Finish

Housing: Poly-amide, UL94V-0, Halogen-free, Black

Metal shell: Copper alloy

Male terminal: Copper alloy, Nickel-undercoated

Au - Contact area / Selective gold-plated

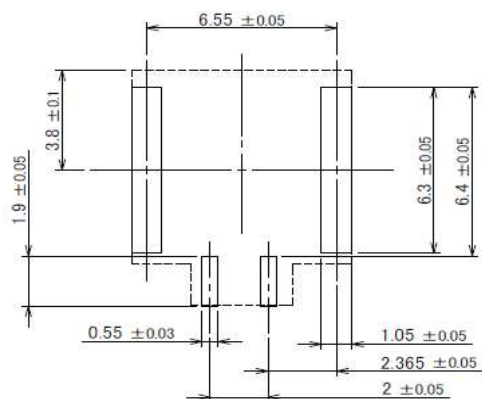
Mounting part / Tin-plated (Reflow treatment)

Sn / Tin-plated (Reflow treatment)

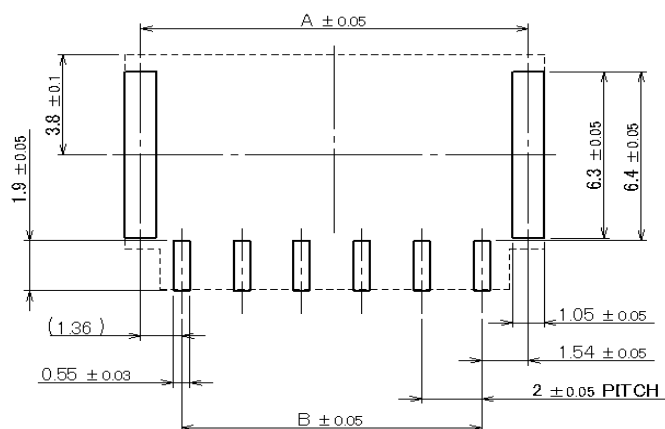
Note: Color/Key codes other than above-mentioned housing are also available.
Contact JST for details.

PC board layout, Assembly layout

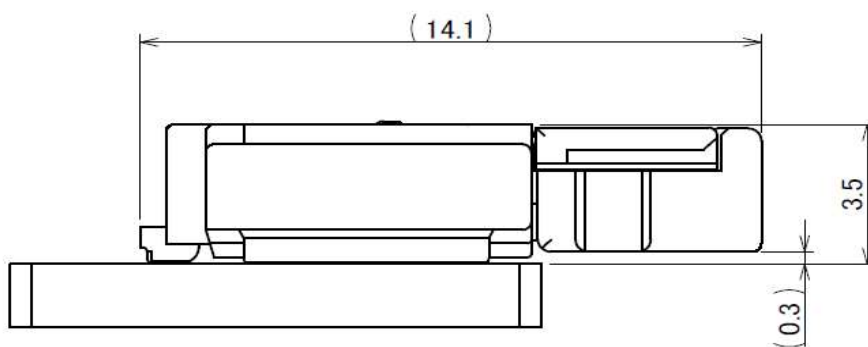
● 2 circuits



● 4 ~ 10 circuits



Circuits	A	B
4	8.9	6
6	12.9	10
8	16.9	14
10	20.9	18



Crimping machine, Applicator

Strip terminal	Crimping machine	Crimp applicator MKS-L	
		Dies	Crimp applicator with dies
SULH-A021GF-0.5	AP-K2N	MK / SULH-A021-05	APLMK SULH-A021-05
SULH-A021T-0.5			

Note: 1. Contact JST for details.

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

Mouser Electronics

Authorized Distributor

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JST:

[ULHCB-04V-A-K\(HF\)](#) [ULHCB-10V-A-K\(HF\)](#) [SULH-A021T-0.5](#) [ULHRR-02V-1A1-K\(HF\)](#) [SM10B-ULHK-1TA1-ETB\(HF\)](#)
[ULHRR-04V-1A1-K\(HF\)](#) [SM04B-ULHK-1TA1-ETB\(HF\)](#) [SM08B-ULHK-1TA1-ETB\(HF\)](#) [ULHRR-06V-1A1-K\(HF\)](#)
[SM02B-ULHK-1TA1-ETB\(HF\)](#) [ULHCB-02V-A-K\(HF\)](#) [ULHCB-06V-A-K\(HF\)](#) [ULHRR-10V-1A1-K\(HF\)](#) [SM06B-ULHK-](#)
[1TA1-ETB\(HF\)](#) [ULHCB-08V-A-K\(HF\)](#) [ULHRR-08V-1A1-K\(HF\)](#)