

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

Electrical CPA type provides unprecedented connection reliability by providing incomplete mating detection function.

Board-to-wire

Features

Conforming the Automotive Standards; USCAR-2 and LV214

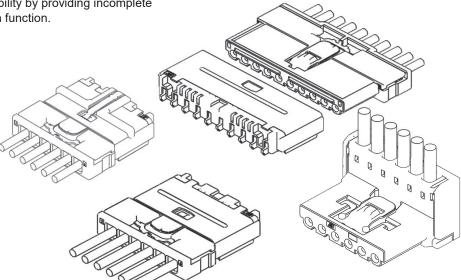
•Low Height and Short Mating Length despite crimped specification

- Space-saving Design
- •Right-angle type optimizes the wiring work
- Oup to 4 key code settings

●Maintains electrical and mechanical properties at temperatures up to 125°C

OUL94 V-0, Halogen-free

●100% detection of incomplete mating by electrical CPA circuit

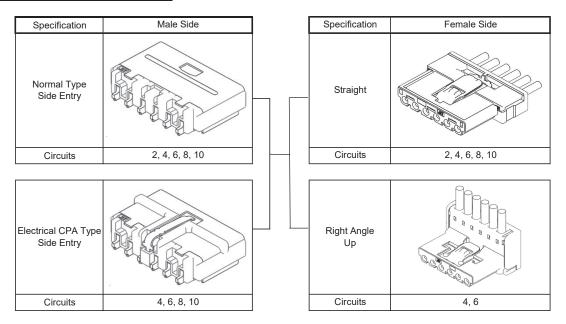


Specifications					
Item	Standard	Condition			
●Current rating	5A AC·DC	Wire for more than 125℃ • Applying AWG#22, All circuits			
Operating voltage	100V AC·DC	IEC60664-1, Pollution degree2			
 Temperature range 	-40°C~+125°C	Including temperature rise in applying			
Applicable wire	AWG#22	Coating OD: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

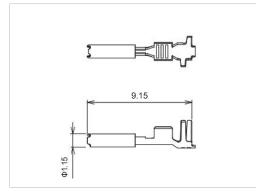
*Compliant with ELV/RoHS2.

*If you have any question, please contact JST.

ULH Series Product Lineup

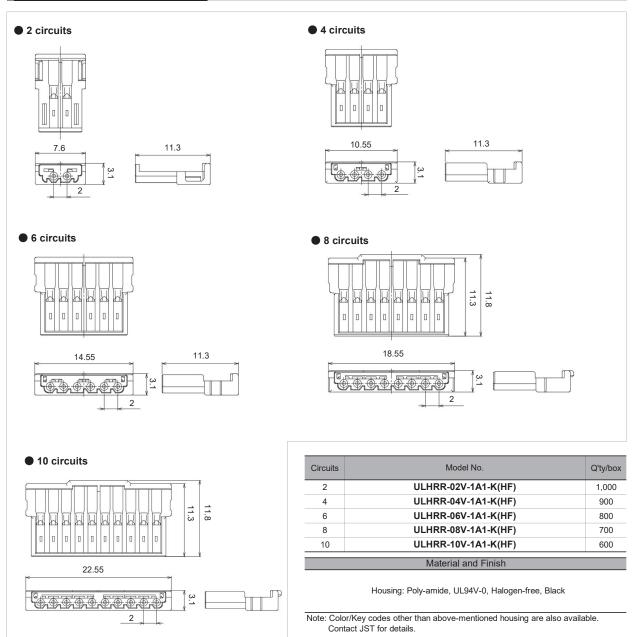


Female terminal / Straight



		Applicabl			
Size	Model No.	Conductor (mm²)	Insulation O.D. (mm)	Q'ty/reel	
М	① SULH-A021GF-0.5 ② SULH-A021T-0.5	0.3 / 0.35	1.5 MAX	9,000	
Material and Finish					
①Copper alloy, Nickel-undercoated, Contact area; Gold-plated					
Barrel area; Tin-plated (Reflow treatment) ②Copper alloy, Tin-plated (Reflow treatment)					

Female connector / Straight



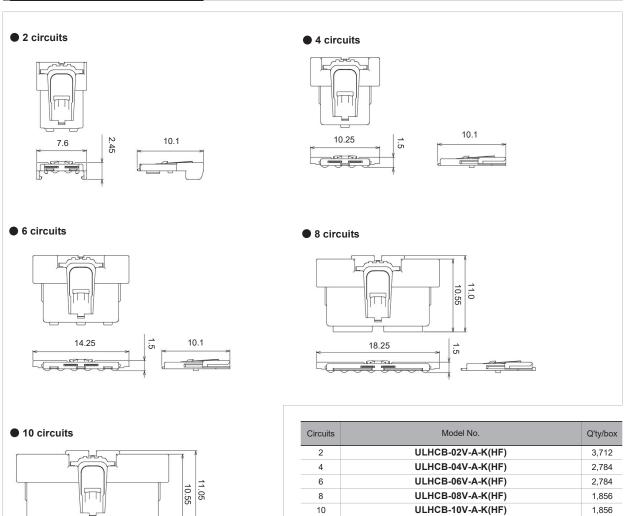
Female cover / Straight

22.25

1.5

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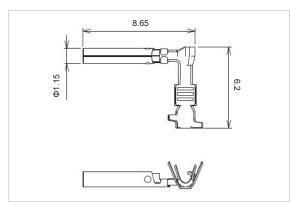
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Housing: Poly-amide, UL94V-0, Halogen-free, Black Metal lock: Stainless

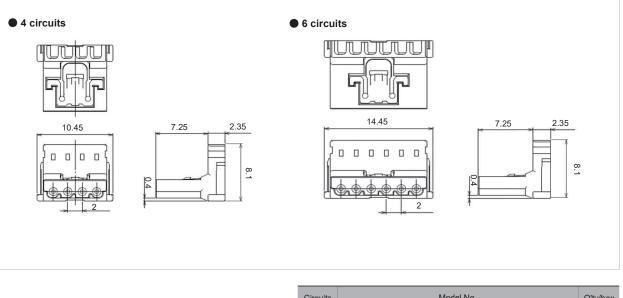
Material and Finish

Female terminal / Right angle



		Applicable			
Size	Model No.	Conductor (mm²)	Insulation O.D. (mm)	Q'ty/reel	
М	① SRULH-A021GF-0.5 ② SRULH-A021T-0.5	0.3 / 0.35	1.5 MAX	8,000	
Material and Finish					
①Copper alloy, Nickel-undercoated, Contact area; Gold-plated Barrel area; Tin-plated (Reflow treatment)					
②Copper alloy, Tin-plated (Reflow treatment)					

Female connector / Right angle



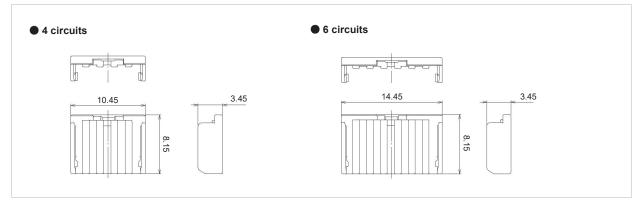
Circuits	Model No.	Q'ty/box
4	ULHRB-04V-1C1-K(HF)	5,000
6	ULHRB-06V-1C1-K(HF)	3,000

Material and Finish

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

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

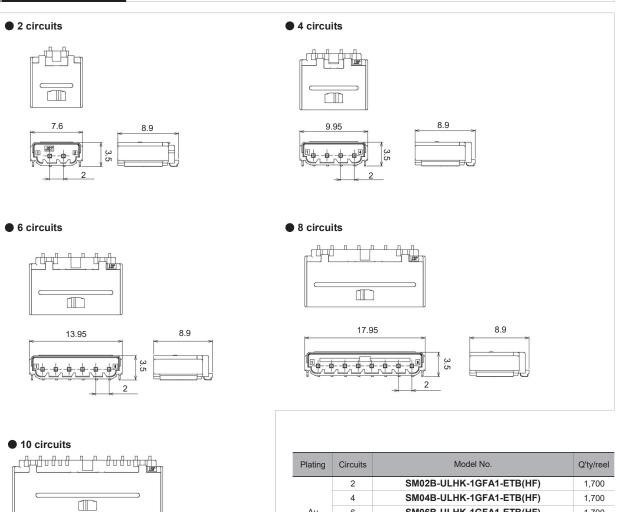
Female cover / Right angle

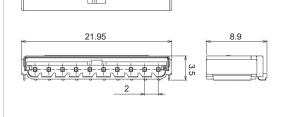


Circuits	Model No.			
4	ULHCR-04V-A-K(HF)	30,000		
6	ULHCR-06V-A-K(HF)	20,000		
Material and Finish				

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

Male connector

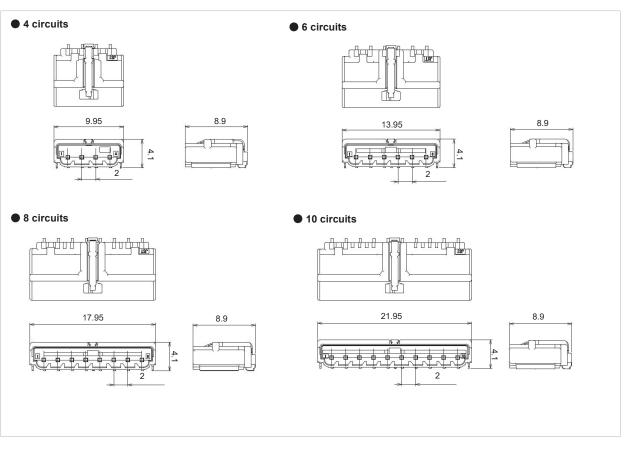




Plating	Circuits	Model No.	Q'ty/reel
	2	SM02B-ULHK-1GFA1-ETB(HF)	1,700
	4	SM04B-ULHK-1GFA1-ETB(HF)	1,700
Au	6	SM06B-ULHK-1GFA1-ETB(HF)	1,700
	8	SM08B-ULHK-1GFA1-ETB(HF)	1,700
	10	SM10B-ULHK-1GFA1-ETB(HF)	1,700
	2	SM02B-ULHK-1TA1-ETB(HF)	1,700
	4	SM04B-ULHK-1TA1-ETB(HF)	1,700
Sn	6	SM06B-ULHK-1TA1-ETB(HF)	1,700
	8	SM08B-ULHK-1TA1-ETB(HF)	1,700
	10	SM10B-ULHK-1TA1-ETB(HF)	1,700
Material and Finish			

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

Male connector / Electrical CPA Type

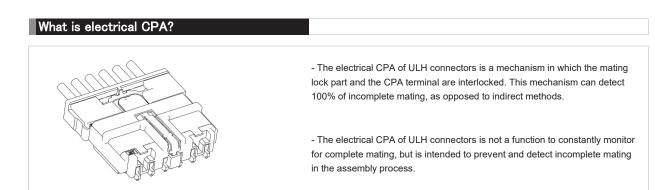


Plating	Circuits	Model No.	Q'ty/reel	
	4	SM04B-ULHK-1GFD1-ETB(HF)	1,500	
Au	6	SM06B-ULHK-1GFD1-ETB(HF)	1,500	
Au	8	SM08B-ULHK-1GFD1-ETB(HF)	1,500	
	10	SM10B-ULHK-1GFD1-ETB(HF)	1,500	
	4	SM04B-ULHK-1TD1-ETB(HF)	1,500	
Sn	6	SM06B-ULHK-1TD1-ETB(HF)	1,500	
011	8	SM08B-ULHK-1TD1-ETB(HF)	1,500	
	10	SM10B-ULHK-1TD1-ETB(HF)	1,500	
Material and Einish				

Material and Finish

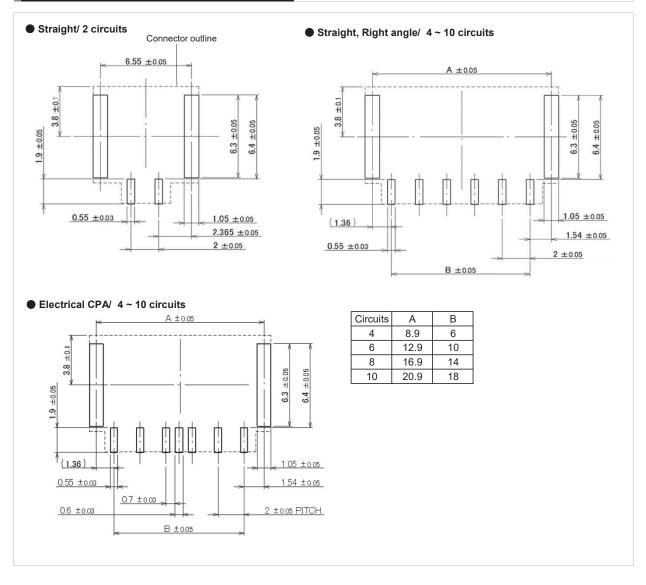
Housing: Poly-amide, UL94V-0, Halogen-free, Black Metal shell: Copper alloy CPA terminal: Copper alloy, No plating Male terminal: Brass, Nickel-undercoated Au - Contact area / Selective gold-plated Mounting part //Tin-plated (Reflow treatment) Sn //Tin-plated (Reflow treatment)

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





PCB layout



ULH CONNECTOR Assembly layout Straight Right angle (13.6) (14.1) (8.4) (3.5) (3.5) (0.3) (0.3 Electrical CPA/ Straight • Electrical CPA/ Right angle (13.6) (14.1) (8.4) A (4.1) (4.1) (0.3) (0.3)

Crimping machine, Applicator

Strip terminal	Crimping	Crimp applicator MKS-L	
Strip terminar	machine	Dies	Crimp applicator with dies
SULH-A021GF-0.5	AP-K2N	MK / SULH-A021-05	APLMK SULH-A021-05
SULH-A021T-0.5			
SRULH-A021GF-0.5		MK / SRULH-A021-05	APLMK SRULH-A021-05
SRULH-A021T-0.5		WIX / SIXULH-AUZ I-05	

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.