CULHCONNECTOR

Board-to-wire



Smallest SMT connector in the world which can be used in automotive application (Height: 3.5mm)

■ Features

Conforming to the Automotive Standard

It conforms to the automotive standard though it is small and low height. It is suitable for small space and high temperature environment.

●Low Height and Short Mating Length

Height: 3.5mm (Black SUS ver. is 3.8mm) Mating Length: 12.8mm, Pitch 1.8mm It is thin and reduces the occupied area.

● Right Angle type

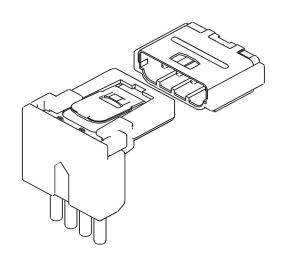
Structure which makes the wire to route under the product directly.

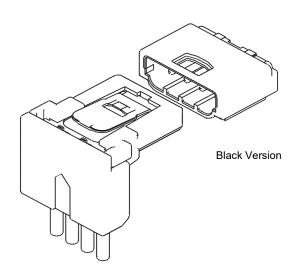
Clear Lock Feeling

Using the metal lock, so it is possible to feel the click feeling in hand clearly though it is small.

Orimp Terminal Structure

It applies 3 contact points and improves contact reliability.



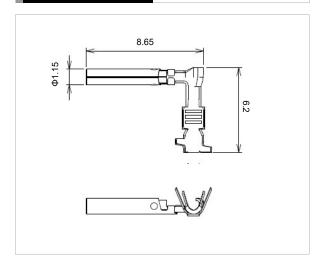


■ Specifications				
Item	Standard	Condition		
Current rating	5A AC·DC	Wire for more than 125°C• Applying AWG#22, All circuits		
Operating voltage	150V AC·DC	IEC60664-1, Pollution degree2		
●Temperature range	-40°C∼+125°C	Including temperature rise in applying electrical current		
●Applicable wire	AWG#22	Coating OD: Φ1.3mm 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		
●Heat resistance	After endurance 15mΩ max	Under 125°C, Abandoned for 1,000 hours		
●Locking force	130N 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

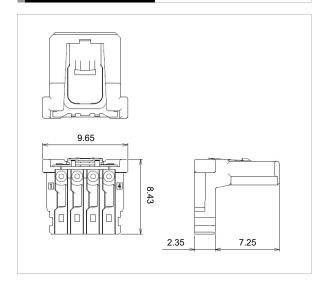


	Model No.	Applicable wire size		
Size		Conductor (mm²)	Insulation O.D. (mm)	Q'ty/Reel
М	SRULH-A021GF-0.5	0.35	1.3 MAX	8,000

Material and Finish

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

Female connector

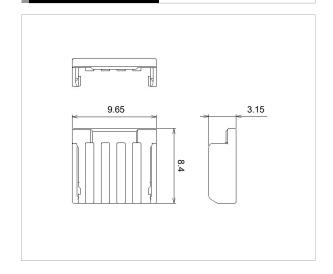


	Circuits	Model No.	Lock color	Q'ty/box
4	CULHRB-04V-1A-K	Metal stainless	1.500	
	CULHRB-04V-1A-KK	Black stainless	1,560	

Material and Finish

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

Female cover

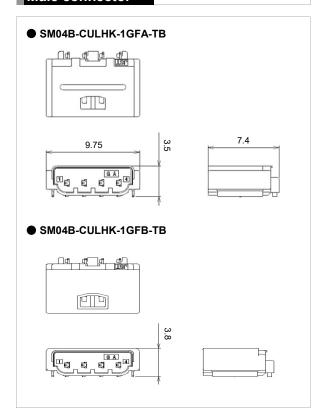


Circuits	Model No.	Housing color	Q'ty/box	
4	CULHCR-04V-A-K	Black	20,000	
Material and Finish				

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

CULH CONNECTOR

Male connector

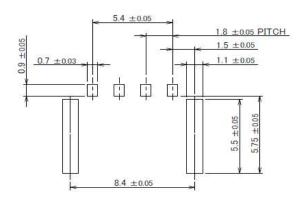


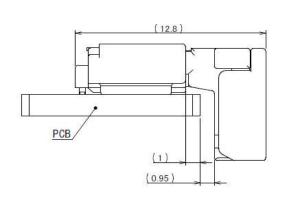
Circuits	Model No.	Connector Upper Side Color	Q'ty/Reel
4	SM04B-CULHK-1GFA-TB	Metal Stainless	1.700
	SM04B-CULHK-1GFB-TB	Black	1,700

Material and Finish

Housing: Poly-amide, Black, UL94V-0, Halogen-free
Metal shell: Copper alloy
Terminal: Brass, Nickel-undercoated, Contact area; Gold-plated
Solder tail; Tin-plated (Reflow treatment)

PC board layout, Assembly layout





Crimping machine, Applicator

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

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.