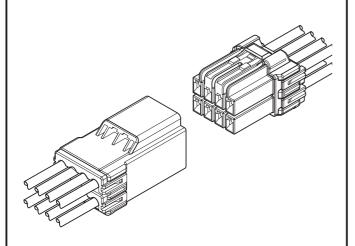


HIL CONNECTOR

3.3mm pitch/Crimp style Wire-to-wire connectors



This HIL connector is 3.3mm pitch wire-towire connector that has a mechanism to prevent an incomplete mating when mating connector.

- Inertia lock mechanism to prevent an incomplete mating
- Box-shaped contact to prevent the influence by external forces
- Polarizing key to prevent connector from mating with incorrect circuits

Specifications -

• Current rating: 5A AC, DC (2 circuits AWG #18)

Voltage rating: 300V AC, DC
Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

Contact resistance: Initial value/10m max.

After environmental testing/20m max.

Insulation resistance: 1,000M min.Withstanding voltage: 1,500V AC/minute

• Applicable wire: Conductor size/01 type AWG #24 to #20

/21 type AWG #22 to #18

Insulation O.D./01 type 1.3 to 2.5mm

/21 type 1.5 to 2.7mm

(when using retainer for 21 type 1.5 to 2.5mm)

* Compliant with RoHS.

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

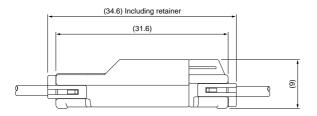
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit: A

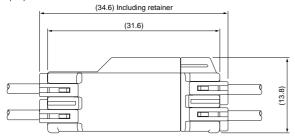
	Circuits	Wire size (AWG)				
	Circuits	#18	#20	#22	#24	
	2	5	4	3	3	
	3	4	4	3	2	
	4	3	3	2	2	
	6	3	3	2	2	
	8	3	3	2	2	

Assembly layout

<2, 3 circuits>



<4, 6, 8 circuits>

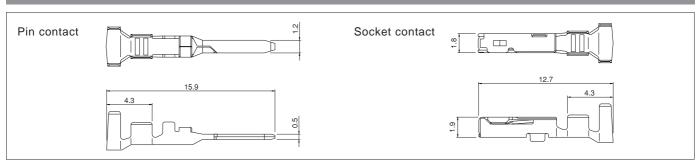


List of combinations

Resin color (Plug/ Receptacle)	Natural	Red	Blue
Polarizing key pattern	Polarizing key pattern 1	Polarizing key pattern 2	Polarizing key pattern 3
Plug Model No.	HILP-()V-1-S	HILP-()V-2-R	HILP-()V-3-E
Receptacle Model No.	HILR-()VF-1-S	HILR-()VF-2-R	HILR-()VF-3-E

HIL CONNECTOR

Contact



Model No.		Applicable wire		Insulation O.D. (mm)	O'hv / ro ol	
Pin contact	Socket contact	mm²	AWG #	msulation O.D. (mm)	Q'ty / reel	
SHIM-01T-P0.5	SHIF-01T-P0.5	0.2~0.5	24~20	1.3~2.5	5,000	
SHIM-21T-P0.5	SHIF-21T-P0.5	0.3~0.75	22~18	1.5~2.7	5,000	

Material and Finish

Copper alloy, tin-plated

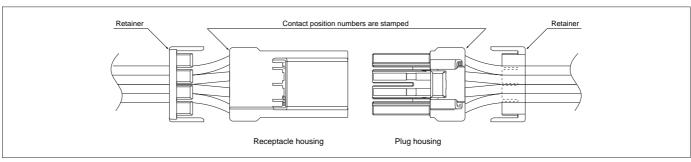
RoHS compliance

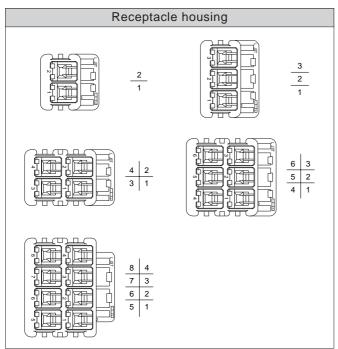
Note: Insulation O.D. is 1.5mm to 2.5mm when using retainer for 21 type barrel size contact.

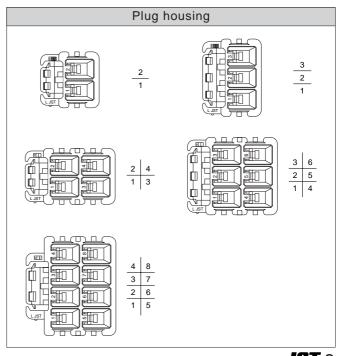
Contact	Crimping machine	Applicator			
Contact		Crimp applicator	Dies	Crimp applicator with dies	
SHIM-01T-P0.5	AP-K2N	MKS-L	MK/SHIF/M-01-05	APLMK SHIF/M01-05	
SHIM-21T-P0.5			MK/SHIF/M-21-05	APLMK SHIF/M21-05	

Contact	Crimping machine	Applicator			
Contact		Crimp applicator	Dies	Crimp applicator with dies	
SHIF-01T-P0.5	AP-K2N	MKS-L	MK/SHIF/M-01-05	APLMK SHIF/M01-05	
SHIF-21T-P0.5			MK/SHIF/M-21-05	APLMK SHIF/M21-05	

Contact position location numbers







HIL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, natural Retainer...Glass-filled PA 66, UL94V-0, natural

	RetainerGlass-filled PA 66, UL94V-0, natural						
Circuits	Voltage rating	Current rating	Receptacle housing (for pin contact)		Plug housing (for socket contact)		Retainer
2	300V	5A	HILR-02VF-1-S	Q'ty/bag	HILP-02V-1-S	Q´ty / bag	HILS-02V (commonly used for 2-circuit housing) 4.25 1,00
			HILR-03VF-1-S	Q'ty / bag	HILP-03V-1-S	Q'ty / bag	HILS-03V (commonly used for 3-circuit housing and 6-circuit housing)
3	300V	4A	9 24.4	1,000	19.1	1,000	4.25
			HILR-04VF-1-S	Q´ty / bag	HILP-04V-1-S	Q'ty / bag	HILS-02V (commonly used for 2-circuit housing and 4-circuit housing)
4	300V	3A	13.8 24.4	1,000	19.1	1,000	1,00
			HILR-06VF-1-S	Q'ty / bag	HILP-06V-1-S	Q'ty / bag	HILS-03V (commonly used for 3-circuit housing and 6-circuit housing)
6	300V	3A	13.8 24.4	500	19.1	1,000	4.25 1,00
			HILR-08VF-1-S	Q'ty / bag	HILP-08V-1-S	Q'ty / bag	HILS-04V Q'ty bag
8	300V	ЗА	13.8 24.4	500	19.1	1,000	4.25

RoHS compliance

Note: Current rating is for use with AWG #18 wire.