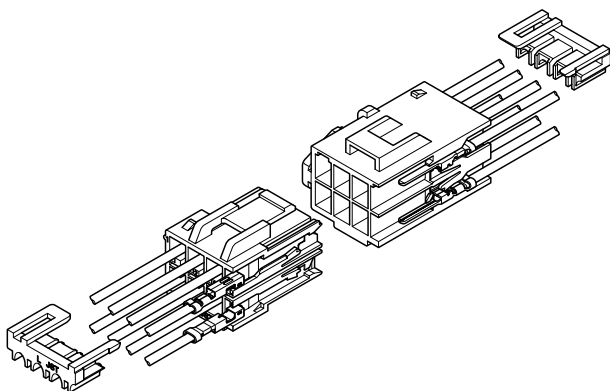


HL CONNECTOR

3.96mm pitch/Disconnectable Crimp style Wire-to-wire connectors



- Low insertion force contact
- Housing lance
- Inner-housing lock
- Secondary retainers
- Panel lock construction

Standards

- Recognized E60389
- Certified LR20812
- R50171609

Specifications

- Current rating: 7A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
0.3 to 0.75mm²
- Applicable panel thickness: 0.7 to 2.0mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

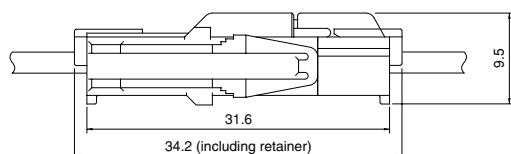
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

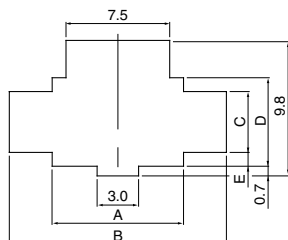
Circuits	Wire size (AWG)		
	#18	#20	#22
2	7	5	4
3	6	4	4
4	6	4	4
8	4	3	3
9	4	3	3
12	3	2	2

Panel layout and Assembly layout

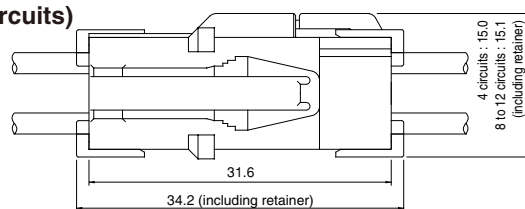
(2 and 3 circuits)



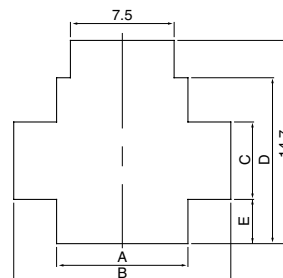
Shape I



(4, 8 and 12 circuits)



Shape II



Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm)			General tolerance		Applicable panel thickness (mm)
			A ±0.13	B ±0.13	C ±0.1	D ±0.13	E ±0.1	
2	HLR-02V	I	9.5	15.7	4.4	6.4	1.0	0.7~2.0
3	HLR-03V	I	13.5	19.7	4.4	6.4	1.0	
4	HLR-04V	II	9.5	15.7	5.6	12.0	3.2	
8	HLR-08V	II	17.4	23.6	5.6	12.0	3.2	
12	HLR-12V	II	25.3	31.6	5.6	12.0	3.2	

Note: 1. Punch holes in the panel according to the figures and table shown above. Burrs must be removed.

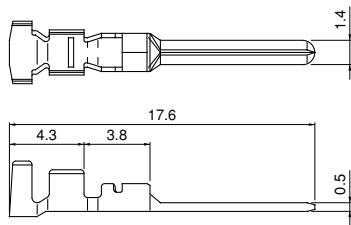
2. The strength of the panel must be considered when punching two or more holes.

3. The connector must be inserted from the same side as the hole is punched.

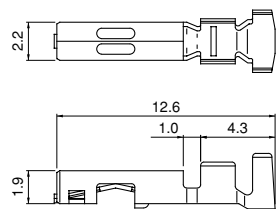
HL CONNECTOR

Contact

Pin contact



Socket contact



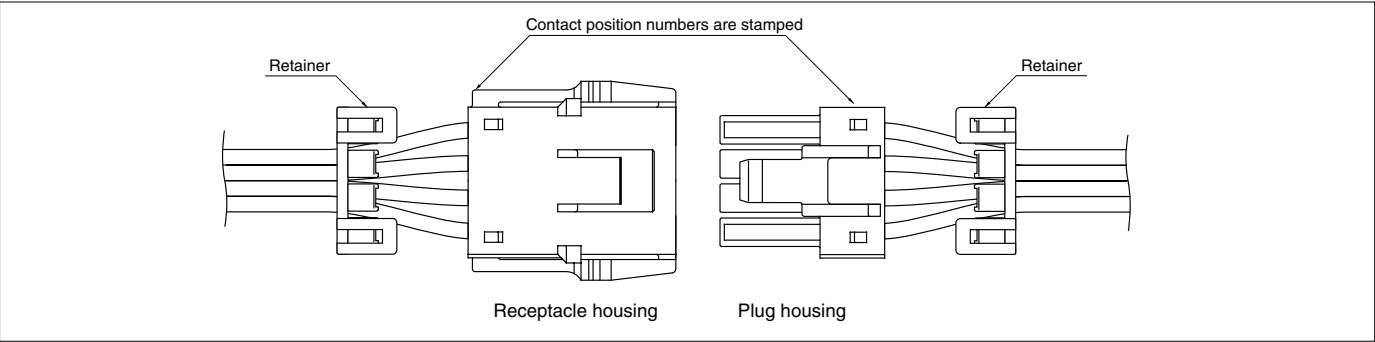
Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm²	AWG #		
SSM-21T-P1.4	SSF-21T-P1.4	0.3~0.75	22~18	1.5~2.2	6,000

Material and Finish	
Phosphor bronze, tin-plated (reflow treatment)	

RoHS compliance
Note: Contact JST for special products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-21T-P1.4	AP-K2N	MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
SSF-21T-P1.4		—	—	—

Contact position location numbers



Receptacle housing

Diagrams of receptacle housing configurations with contact position numbers:

- 2 | 1
- 3 | 2 | 1
- 4 | 2 | 3 | 1
- 8 | 4 | 7 | 3 | 6 | 2 | 5 | 1
- 12 | 6 | 11 | 5 | 10 | 4 | 9 | 3 | 8 | 2 | 7 | 1
- 9 | 6 | 3 | 8 | 5 | 2 | 7 | 4 | 1

Plug housing

Diagrams of plug housing configurations with contact position numbers:

- 2 | 1
- 3 | 2 | 1
- 2 | 4 | 1 | 3
- 4 | 8 | 3 | 7 | 2 | 6 | 1 | 5
- 6 | 12 | 5 | 11 | 4 | 10 | 3 | 9 | 2 | 8 | 1 | 7
- 3 | 6 | 9 | 2 | 5 | 8 | 1 | 4 | 7

HL CONNECTOR

Housing

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

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer
2	300V	7A	HLR-02V 	HLP-02V 	HLS-02V (commonly used for 2-circuit housing and 4-circuit housing)
			HLR-02VF 		
3	300V	6A	HLR-03V 	HLP-03V 	HLS-03V
			HLR-03VF 		
4	300V	6A	HLR-04V 	HLP-04V 	HLS-02V (commonly used for 2-circuit housing and 4-circuit housing)
			HLR-04VF 		
8	300V	4A	HLR-08V 	HLP-08V 	HLS-08V
			HLR-08VF 		
9	300V	4A	HLR-09V 	HLP-09V 	HLS-09V
			HLR-09VF 		
12	300V	3A	HLR-12V 	HLP-12V 	HLS-12V
			HLR-12VF 		

RoHS compliance