



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



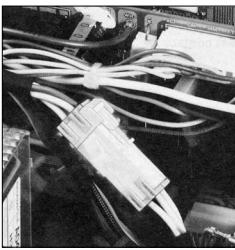
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

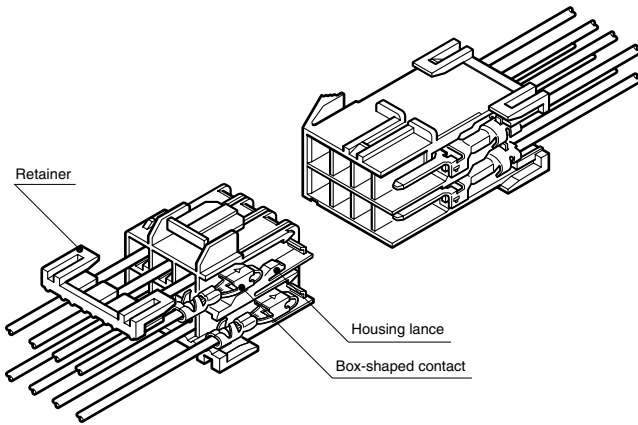
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





ZL CONNECTOR

5.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



ZL connectors are reliable, smoothly mating wire-to-wire connectors.

- **Housing lances**
- **Retainer**
- **Box-shaped contacts**
- **Mountable on a variety of panels**

Specifications

- Current rating: 10A 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 #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.7 to 2.4mm
- * 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

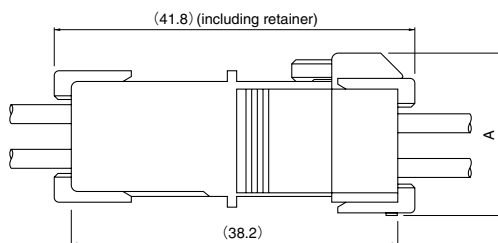
Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	2
4	9	5	4	3	3	2
6	8	4	3	3	2	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

Standards

Ⓜ Recognized E60389

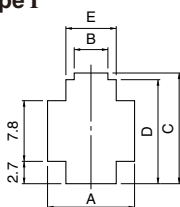
Ⓢ Certified LR20812

Panel layout and Assembly layout

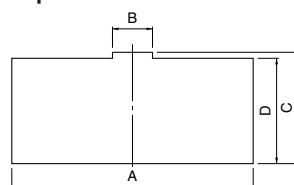


Circuits	Dimensions A (mm)
2 · 4	18.2
6 · 8 · 12 · 16	17.5

Shape I



Shape II



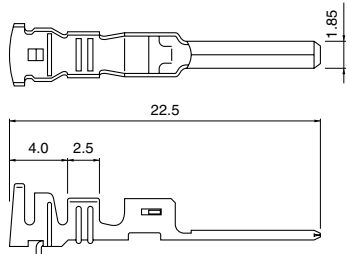
Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm) General tolerance ±0.13					Applicable panel thickness (mm)
			A	B	C	D	E	
2	ZLR-02V	I	11.5	4.4	13.95	13.2	6.5	0.7~2.4
4	ZLR-04V	I	16.5	5.2	13.95	13.2	11.6	
6	ZLR-06V	II	21.5	5.2	13.95	13.2	—	
8	ZLR-08V	II	26.5	5.2	13.95	13.2	—	
12	ZLR-12V	II	36.5	5.2	13.95	13.2	—	
16	ZLR-16V	II	46.5	5.2	13.95	13.2	—	

- 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.

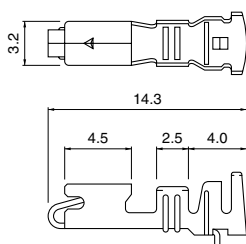
ZL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SZM-01T-P0.7	SZF-01T-P0.7	0.13~0.5	26~20	1.3~2.7	3,000
SZM-41T-P0.7	SZF-41T-P0.7	0.75~1.25	18~16	1.9~3.1	
		0.3+0.3~ 0.5+0.5	22+22~ 20+20	1.7+1.7~ 2.0+2.0	

Material and Finish

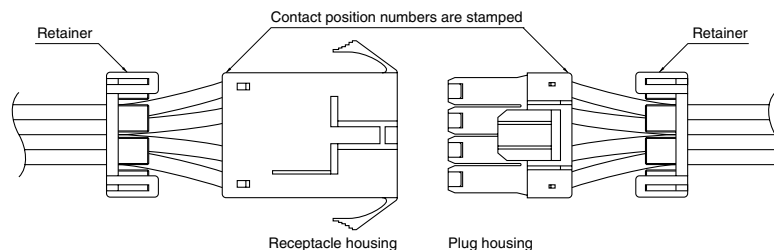
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

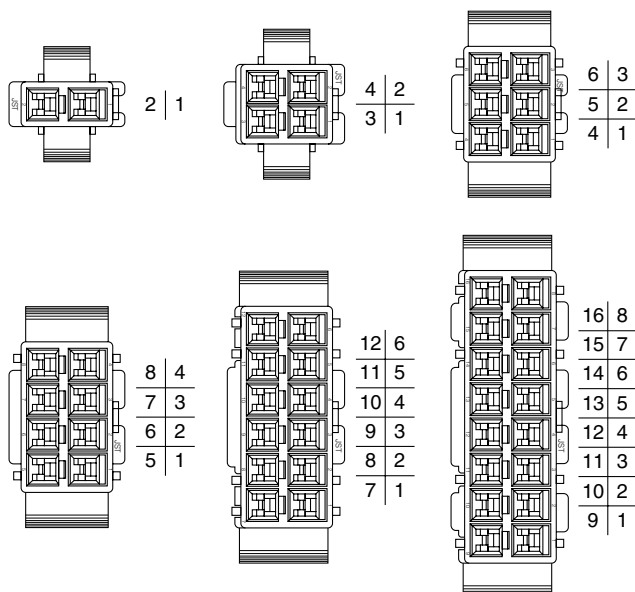
- Note: 1. Contact JST for special products.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZM-01T-P0.7	AP-K2N	MKS-L	MK/SZF/M-01-07	APLMK SZF/M01-07
SZF-01T-P0.7		—	—	—
SZM-41T-P0.7		MKS-L	MK/SZF/M-41-07	APLMK SZF/M41-07
SZF-41T-P0.7		—	—	—

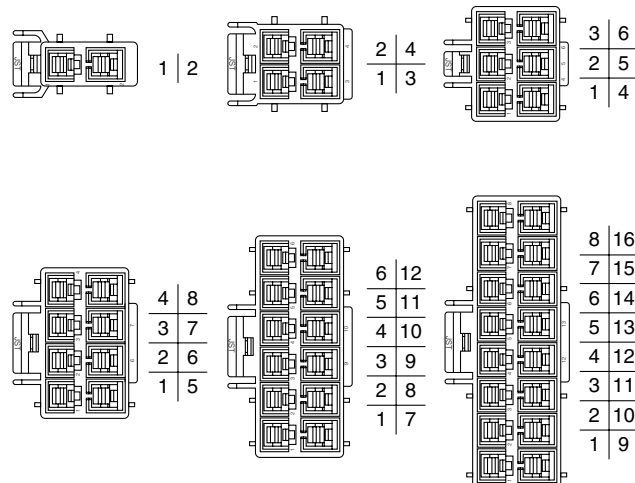
Contact position location numbers



Receptacle housing



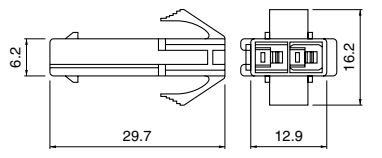
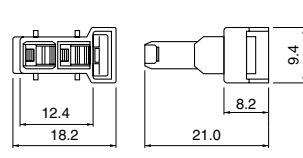
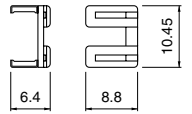
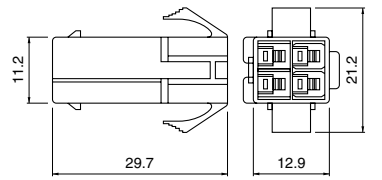
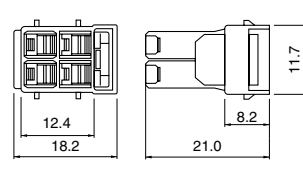
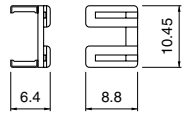
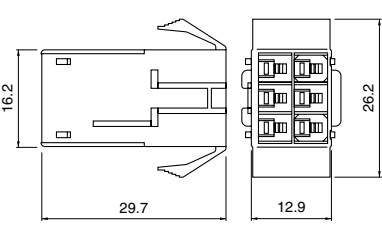
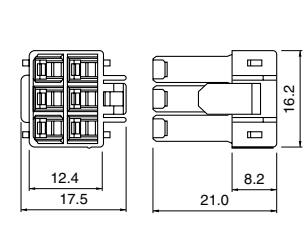
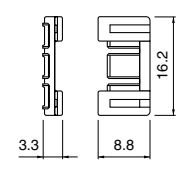
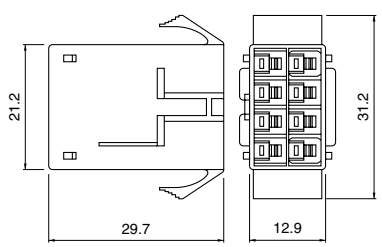
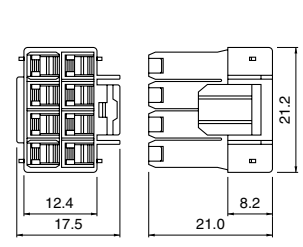
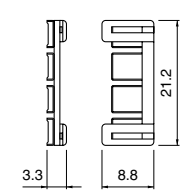
Plug housing



ZL CONNECTOR

Contact

Material: Housing...PA 6, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

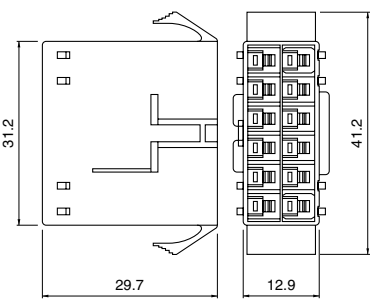
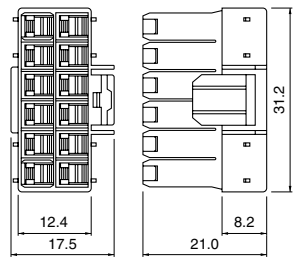
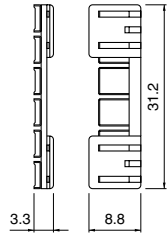
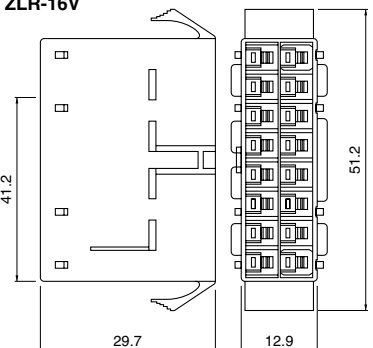
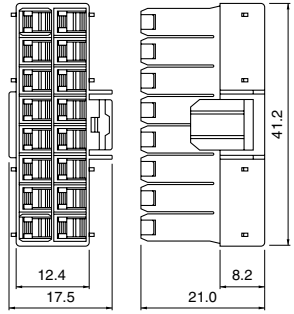
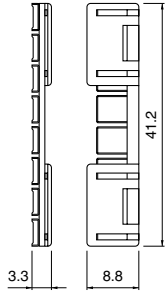
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
2	300V	10A	ZLR-02V 	Q'ty / bag 500	ZLP-02V 	Q'ty / bag 500	ZLS-02V (Used with both housings with 2 and 4 circuits) 	Q'ty / bag
4	300V	9A	ZLR-04V 	Q'ty / bag 500	ZLP-04V 	Q'ty / bag 500		1,000
6	300V	8A	ZLR-06V 	Q'ty / bag 500	ZLP-06V 	Q'ty / bag 500	ZLS-03V 	Q'ty / bag 1,000
8	300V	6A	ZLR-08V 	Q'ty / bag 500	ZLP-08V 	Q'ty / bag 500	ZLS-08V 	Q'ty / bag 1,000

RoHS compliance

ZL CONNECTOR

Contact

Material: Housing...PA 6, 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
12	300V	6A	ZLR-12V 	ZLP-12V 	ZLS-12V 
			Q'ty / bag 200	Q'ty / bag 200	Q'ty / bag 1,000
16	300V	5A	ZLR-16V 	ZLP-16V 	ZLS-16V 
			Q'ty / bag 200	Q'ty / bag 200	Q'ty / bag 1,000

RoHS compliance

Note: 1. ZL connectors with any number of circuits can be used either panel mounted or free hanging. See "Panel layout" for the panel dimensions.
2. Contact JST for special products.