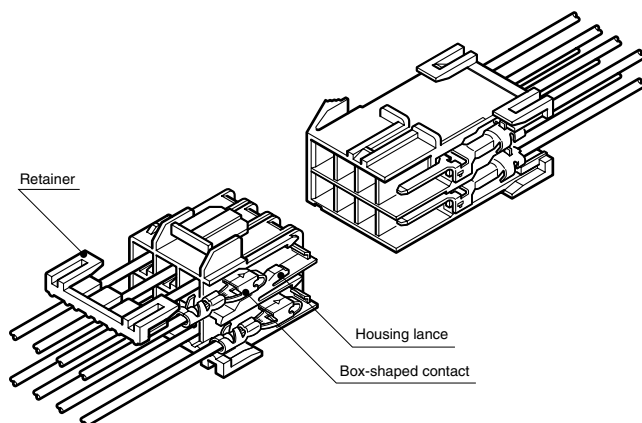


ZL CONNECTOR

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

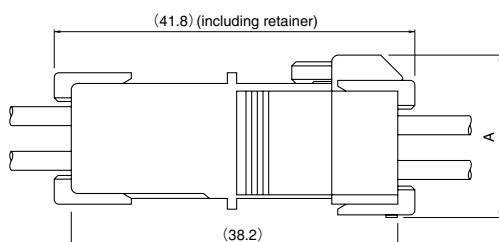
Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	2
4	9	5	4	3	3	2
6	8	4	3	3	2	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

Standards

Ⓜ Recognized E60389

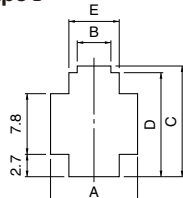
Ⓢ Certified LR20812

Panel layout and Assembly layout

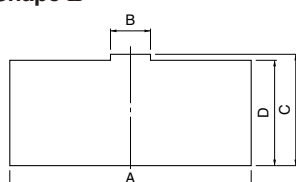


Circuits	Dimensions A (mm)
2 • 4	18.2
6 • 8 • 12 • 16	17.5

Shape I



Shape II



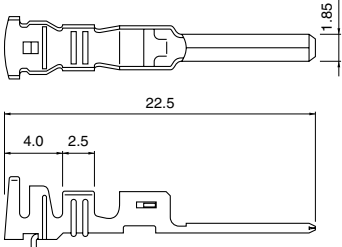
Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm) General tolerance ±0.13					Applicable panel thickness (mm)
			A	B	C	D	E	
2	ZLR-02V	I	11.5	4.4	13.95	13.2	6.5	0.7~2.4
4	ZLR-04V	I	16.5	5.2	13.95	13.2	11.6	
6	ZLR-06V	II	21.5	5.2	13.95	13.2	—	
8	ZLR-08V	II	26.5	5.2	13.95	13.2	—	
12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

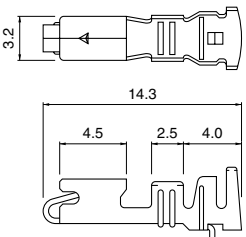
ZL CONNECTOR

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	

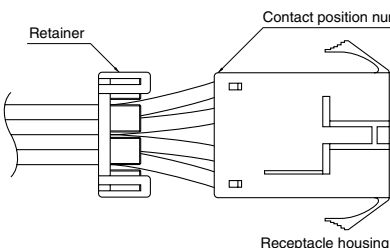
Material and Finish

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		—	—	—

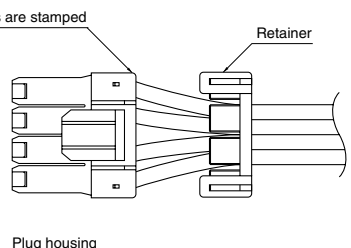
Contact position location numbers



Retainer

Contact position numbers are stamped

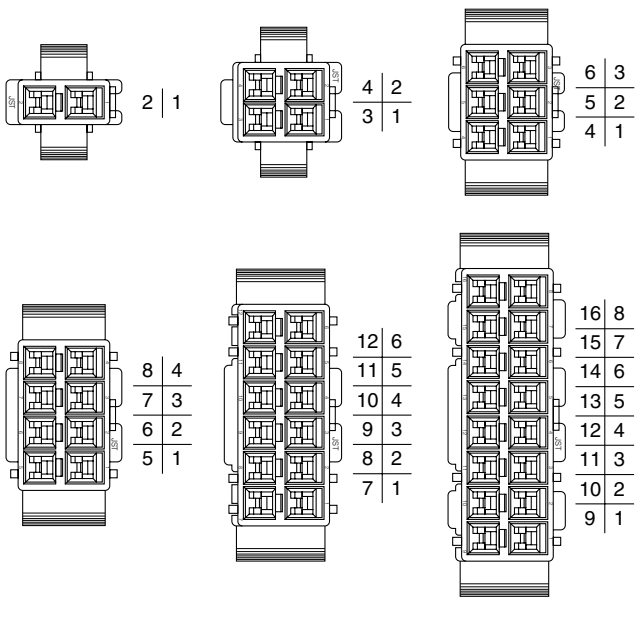
Receptacle housing



Retainer

Plug housing

Receptacle housing



2 | 1

4 | 2
3 | 1

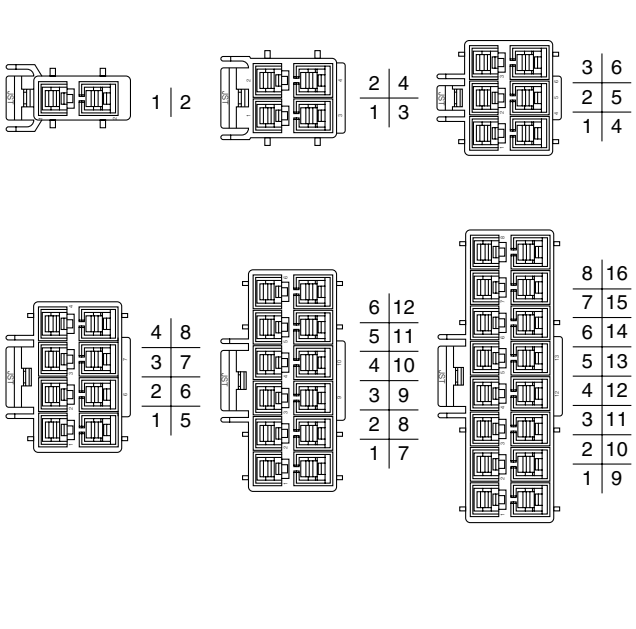
6 | 3
5 | 2
4 | 1

8 | 4
7 | 3
6 | 2
5 | 1

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

16 | 8
15 | 7
14 | 6
13 | 5
12 | 4
11 | 3
10 | 2
9 | 1

Plug housing



1 | 2

2 | 4
1 | 3

3 | 6
2 | 5
1 | 4

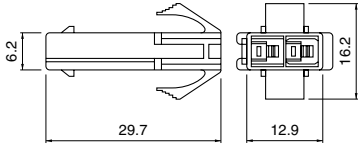
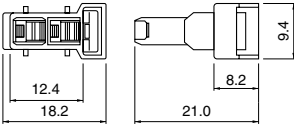
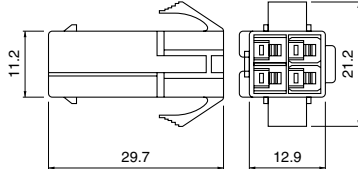
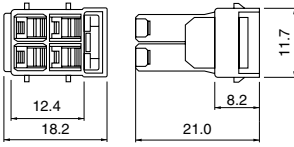
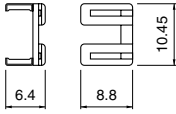
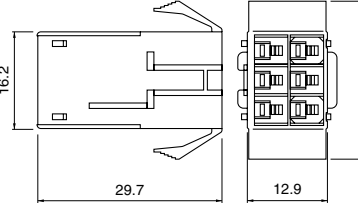
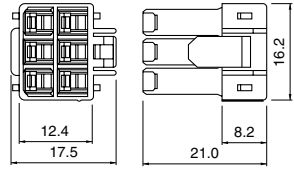
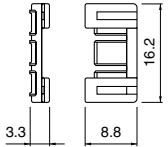
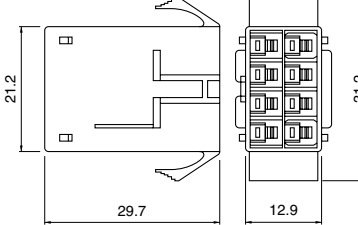
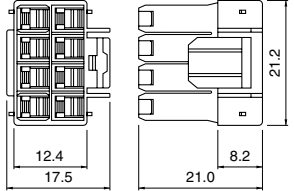
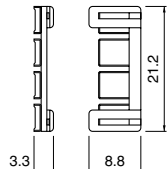
4 | 8
3 | 7
2 | 6
1 | 5

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

8 | 16
7 | 15
6 | 14
5 | 13
4 | 12
3 | 11
2 | 10
1 | 9

Contact

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

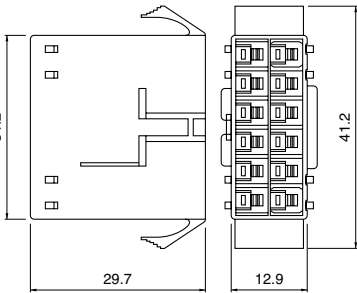
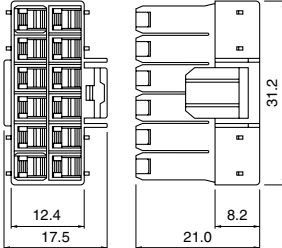
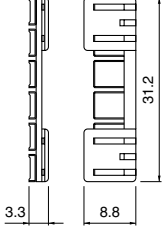
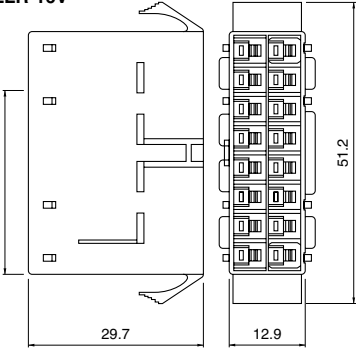
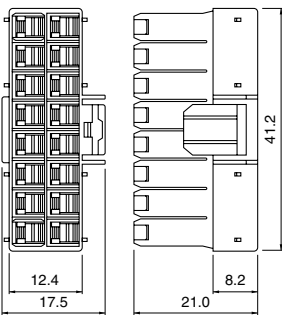
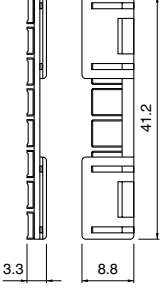
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
2	300V	10A	ZLR-02V 	Q'ty / bag	ZLP-02V 	Q'ty / bag	ZLS-02V (Used with both housings with 2 and 4 circuits)	Q'ty / bag
				500		500		
4	300V	9A	ZLR-04V 	Q'ty / bag	ZLP-04V 	Q'ty / bag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

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