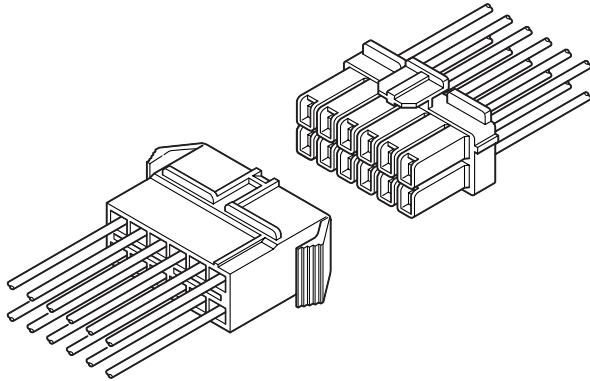


# XL CONNECTOR

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



**XL connectors are reliable wire-to-wire connectors, used for such electrical and electronic equipment as home appliances, vending machines, and office machines.**

- **Reliable housing construction**
- **Easy contact insertion**
- **Box-shaped contact**
- **Two kinds of connections**

## 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 1.25mm<sup>2</sup>
- Applicable panel thickness: 0.7 to 2.4mm
- \* RoHS compliant products are published.
- \* 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	3
4	9	5	4	3	3	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

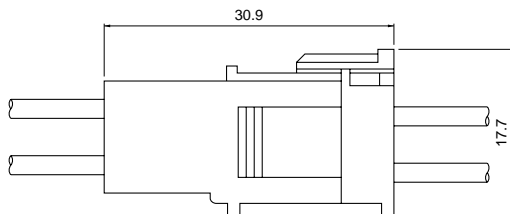
## Standards

Recognized E60389

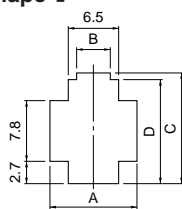
Certified LR20812

R75052

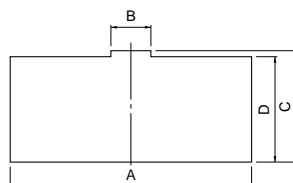
## Assembly layout and Panel layout



Shape I



Shape II



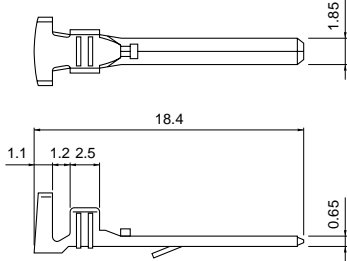
Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm)				General tolerance ±0.13	Applicable panel thickness (mm)
			A	B	C	D		
2	<b>XLR-02V</b>	I	11.5	4.4	13.95	13.2	0.7 ~ 2.4	
4	<b>XLR-04V</b>	II	16.5	5.2	13.95	13.2		
8	<b>XLR-08V</b>	II	26.5	5.2	13.95	13.2		
12	<b>XLR-12V</b>	II	36.5	5.2	13.95	13.2		
16	<b>XLR-16V</b>	II	46.5	5.2	13.95	13.2		

- Note: 1. Punch holes in the panel according to the sketch 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.

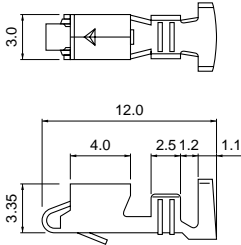
# XL CONNECTOR

## Contact

### Pin contact



### Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm <sup>2</sup>	AWG #		
<b>SYM-01T-P0.7</b>	<b>SXF-01T-P0.7</b>	0.13 ~ 0.5	26 ~ 20	1.3 ~ 2.7	Pin contact SYM-01T-P0.7 : 6,000 SYM-41T-P0.7 : 4,000
<b>SYM-41T-P0.7</b>	<b>SXF-41T-P0.7</b>	0.5 ~ 1.25	20 ~ 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	Socket contact : 3,000

### Material and Finish

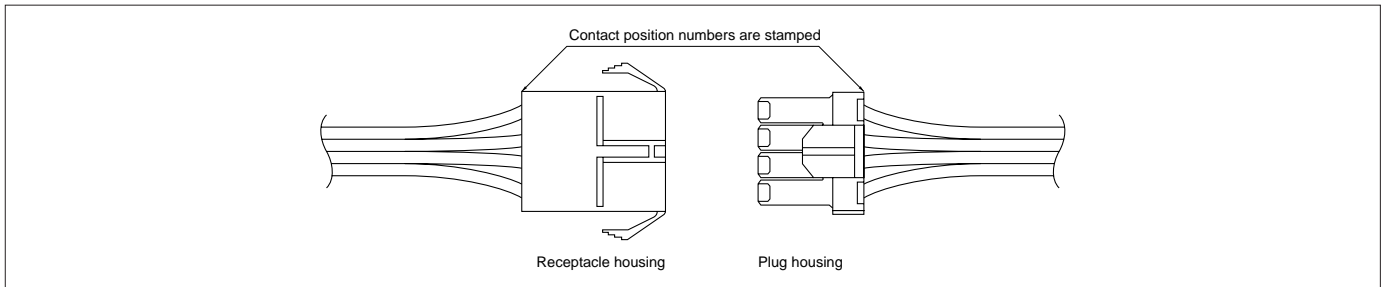
Phosphor bronze, tin-plated (reflow treatment)

### RoHS compliance

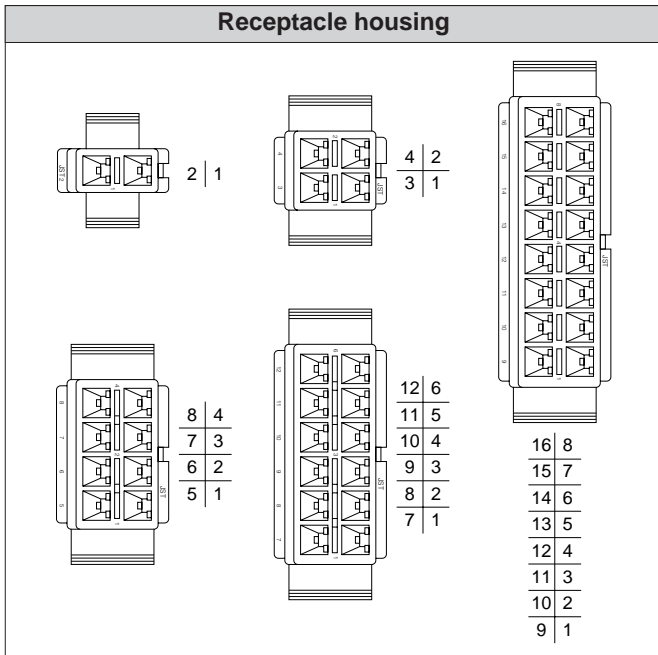
Note: 1. Contact JST for special products.  
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
<b>SYM-01T-P0.7</b>	AP-K2N	MKS-L	MK/SYM-01-07	APLMK SYM01-07
		—	—	—
<b>SXF-01T-P0.7</b>	AP-K2N	MKS-L	MK/SXF-01-07	APLMK SXF01-07
		—	—	—
<b>SYM-41T-P0.7</b>	AP-K2N	MKS-L	MK/SYM-41-07	APLMK SYM41-07
		—	—	—
<b>SXF-41T-P0.7</b>	AP-K2N	MKS-L	MK/SXF-41-07	APLMK SXF41-07
		—	—	—

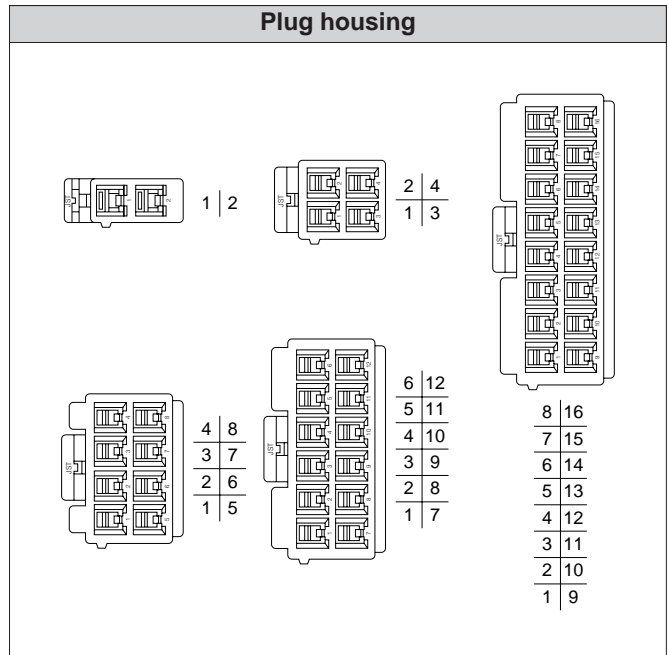
## Contact position location numbers



### Receptacle housing



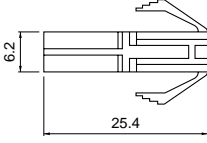
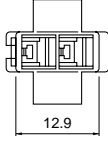
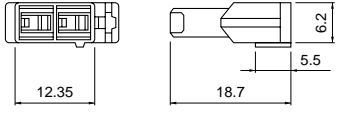
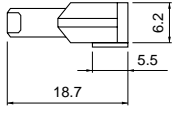
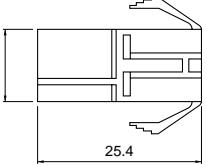
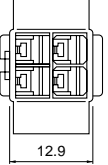
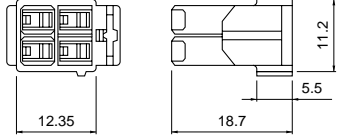
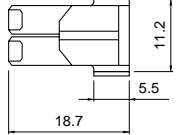
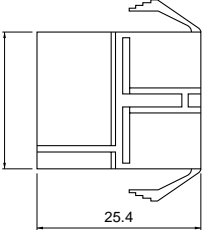
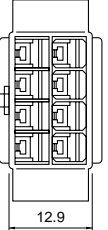
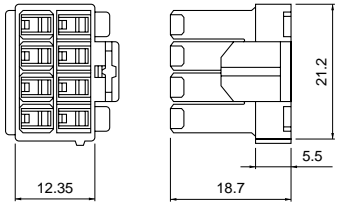
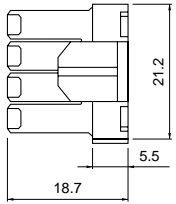
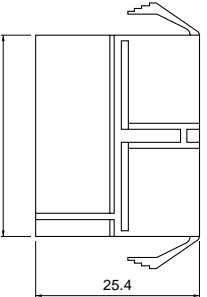
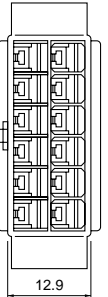
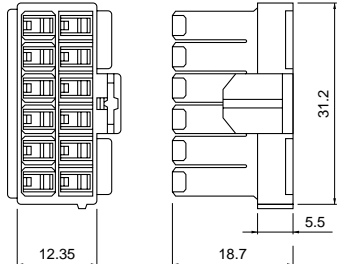
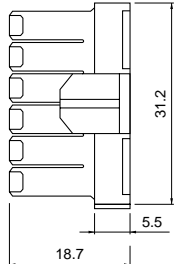
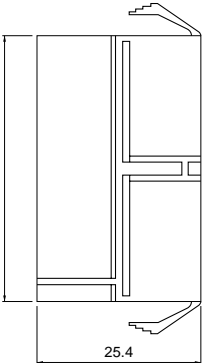
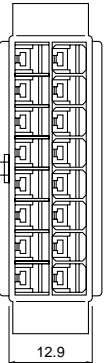
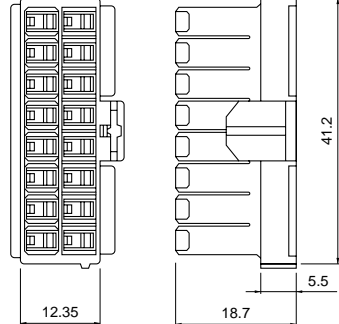
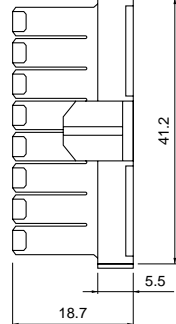
### Plug housing



# XL CONNECTOR

## Housing

Material: PA 66, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Q'ty/ bag	Plug housing(for socket contact)		Q'ty/ bag
2	300V	10A	<b>XLR-02V</b>		500	<b>XLP-02V</b>		500
								
4	300V	9A	<b>XLR-04V</b>		500	<b>XLP-04V</b>		500
								
8	300V	6A	<b>XLR-08V</b>		500	<b>XLP-08V</b>		500
								
12	300V	6A	<b>XLR-12V</b>		200	<b>XLP-12V</b>		200
								
16	300V	5A	<b>XLR-16V</b>		100	<b>XLP-16V</b>		200
								

### RoHS compliance

Note: 1. XL connectors with any number of circuits can be used either panel mounted or free hanging. The panel hole dimensions are given on the next page.  
2. Contact JST for special products.